

120486

From: Vogel, Nancy
Sent: Tuesday, April 27, 2004 1:06 PM
To: STIC-Biotech/ChemLib
Subject: sequence search 10/677,471

Please search SEQ ID NO 83 of 10/677,471 and return results to me on paper asap.

Thanks,

Examiner Nancy Vogel

Art Unit 1636
Office: Remson 2A65
Mail Box: Remson 2C70
(571) 272-0780

Searcher: _____
Phone: _____
Location: _____
Date Picked Up: _____
Date Completed: _____
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH:
NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6 (c) 1993 - 2004 Compugen Ltd.									
OM protein - protein search, using sw model									
Run on: April 28, 2004, 12:53:47 ; Search time 59 Seconds (without alignments) 2064.033 Million cell updates/sec									
Title: US-10-677-471-83									
Sequence: 1 MFRGGESLIVLIVICLIT. LRRKRYSLDYLINGIVDI 431									
Scoring table: BLOSSUM62									
Gapcp 10.0 , Gapext 0.5									
Searched: 1586107 seqs, 282547505 residues									
Total number of hits satisfying chosen parameters: 1586107									
Minimum DB seq length: 0									
Maximum DB seq length: 200000000									
Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries									
Database : A_Geneseq_280Jan04: *									
1: geneseqp1990s: *									
2: geneseqp2000s: *									
3: geneseqp2001s: *									
4: geneseqp2002s: *									
5: geneseqp2003as: *									
6: geneseqp2003bs: *									
7: geneseqp2004bs: *									
8: geneseqp2004bs: *									
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.									
SUMMARIES									
Result No. Score Query Match Length DB ID Description									
1 2211 100.0 431 2 AAY17834	AAV17834	Human	PRO	AAy17834	Human	PRO	AAV17834	standard; protein; 431 AA.	RESULT 1
2 2211 100.0 431 3 AAB33428	Aab33428	Human	PRO	Aab33428	Human	PRO	AAV17834;	XX	
3 2211 100.0 431 3 AAB34739	Aab01325	Human	PRO	Aab34739	Human	sec	XX	DT 12-AUG-1999 (first entry)	
4 2211 100.0 431 4 AAB95464	Aab95464	Human	pro	Aab95464	Human	pro	XX	DE Human PRO361 protein sequence.	
5 2211 100.0 431 5 AAB65299	Aab65299	Human	PRO	Aab65299	Human	PRO	XX	KW Human; PRO protein; tumour necrosis factor family; TNF; cytokine; secreted protein; transmembrane protein; inflammation disorder.	
6 2211 100.0 431 6 AAB59334	Aab59334	Human	sec	Aab59334	Human	sec	XX	OS Homo sapiens.	
7 2211 100.0 431 6 AAB58114	Aab58114	Human	PRO	Aab58114	Human	PRO	XX	XX	
8 2211 100.0 431 6 AAB59192	Aab59192	Novel	hum	Aab59192	Novel	hum	XX	XX	
9 2211 100.0 431 6 AAB82704	Aab82704	Human	sec	Aab82704	Human	sec	XX	PR 17-DEC-1997; 97US-0069873P.	
10 2211 100.0 431 6 AAB60623	Aab60623	Human	sec	Aab60623	Human	sec	XX	PR 18-DEC-1997; 97US-00698017P.	
11 2211 100.0 431 6 AAB14005	Aab14005	Human	PRO	Aab14005	Human	PRO	XX	PR 05-JAN-1998; 98US-0070440P.	
12 2211 100.0 431 6 AAB6244	Aab6244	Human	PRO	Aab6244	Human	PRO	XX	PR 09-FEB-1998; 98US-0074086P.	
13 2211 100.0 431 6 AAB72590	Aab72590	Novel	hum	Aab72590	Novel	hum	XX	PR 09-FEB-1998; 98US-0074092P.	
14 2211 100.0 431 6 AAB64930	Aab64930	Human	sec	Aab64930	Human	sec	XX	PR 25-FEB-1998; 98US-0075945P.	
15 2211 100.0 431 6 AAB5355	Aab5355	Novel	hum	Aab5355	Novel	hum	XX	(GENTH) GENENTECH INC.	
16 2211 100.0 431 6 AAB58364	Aab58364	Novel	hum	Aab58364	Novel	hum	XX	XX	
17 2211 100.0 431 6 AAB57250	Aab57250	Human	PRO	Aab57250	Human	PRO	XX	PT wood WI, Goddard A, Gurney AL, Yuan J, Baker KP, Chen J;	
18 2211 100.0 431 6 AAB59339	Aab59339	Human	sec	Aab59339	Human	sec	XX	DR N-PSDB; AAXB0059.	
19 2211 100.0 431 6 AAB26036	Aab26036	Human	PRO	Aab26036	Human	PRO	XX	PR WPI; 1999-37118/31.	
20 2211 100.0 431 6 AAB56315	Aab56315	Human	sec	Aab56315	Human	sec	XX	DR	
21 2211 100.0 431 6 AAB60355	Aab60355	Novel	hum	Aab60355	Novel	hum	XX	PT	
22 2211 100.0 431 6 AAB59045	Aab59045	Human	sec	Aab59045	Human	sec	XX	PT Nucleic acids encoding PRO secreted and transmembrane proteins.	
23 2211 100.0 431 6 AAB92423	Aab92423	Novel	hum	Aab92423	Novel	hum	XX	PS Claim 12; FIG 37; 123pp; English.	
24 2211 100.0 431 6 AAB59488	Aab59488	Novel	hum	Aab59488	Novel	hum	XX	PS	
25 2211 100.0 431 6 AAB92254	Aab92254	Novel	hum	Aab92254	Novel	hum	XX	XX	

CC The present invention describes nucleic acids encoding PRO secreted and transmembrane proteins used therapeutically. The PRO proteins have
 CC cytostatic, anti-inflammatory, anti-proliferative and immunosuppressive
 CC activity. The proteins and polynucleotides can be used in therapy,
 CC identification of homologues, raising antibodies and design of probes and
 CC primers. They can be used in a range of diseases related to proteins that
 CC they have homology with, e.g. a PRO protein having homology to complement
 XX proteins may be used in inflammatory responses

SQ Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 2; Length 431;
 Best Local Similarity 100.0%; Pred. No. 3.6e-173; Mismatches 0; Indels 0; Gaps 0;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 MPFGGGSLLTUVICFLTRILSASONCLRSLEDWVIDOSSISKGIRGNEPYVTSTO 60
 Db 1 MPFGGGSLLTUVICFLTRILSASONCLRSLEDWVIDOSSISKGIRGNEPYVTSTO 60
 Qy 61 PDCINCCSTKNIISGKACNMIFDTRKTAQPNCVLFFCNNEACPLPKAGLMSYRI 120
 Db 61 EDCINCCSTKNIISGKACNMIFDTRKTAQPNCVLFFCNNEACPLPKAGLMSYRI 120
 Qy 121 TDFPSLTTRNLSQLPQEDSILHQSQSQAVTPLAHHTDYSKPTDSWRTLSQFGSSD 180
 Db 121 TDFPSLTTRNLSQLPQEDSILHQSQSQAVTPLAHHTDYSKPTDSWRTLSQFGSSD 180
 Qy 181 HLEKLFKNDENASQQLAYKEKGHSQSOFSQDOETAHLLPNNVALPATVAVASPTTSA 240
 Db 181 HLEKLFKNDENASQQLAYKEKGHSQSOFSQDOETAHLLPNNVALPATVAVASPTTSA 240
 Qy 241 TPKPATLPTMASVTPGTSQPLATTAPPVTTSQPTLISVTRAATLQAMATT 300
 Db 241 TPKPATLPTMASVTPGTSQPLATTAPPVTTSQPTLISVTRAATLQAMATT 300
 Qy 301 AVLTTFQAPDPSKGSLETIPTEISNLTLTGNVNPNTAISMSNVESSTNKATASWGR 360
 Db 301 AVLTTFQAPDPSKGSLETIPTEISNLTLTGNVNPNTAISMSNVESSTNKATASWGR 360
 Qy 361 BASPGSSSQGSQVNPENQGLPPBKWL175LFLGVLFLVIGHVLGRILSSELRKRSRL 420
 Db 361 BASPGSSSQGSQVNPENQGLPPBKWL175LFLGVLFLVIGHVLGRILSSELRKRSRL 420
 Qy 421 DYLINGIYVDI 431
 Db 421 DYLINGIYVDI 431

RESULT 2

AAB33428
 ID AAB33428 standard; protein; 431 AA.
 XX
 AC AAB33428;
 XX
 DT 29-JAN-2001 (first entry)
 XX
 DE Human PRO361 protein UNQ316 SEQ ID NO:72.

PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
 PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
 PI Stewart TA, Tumas D, Watanabe CK, Wood WI, Yan M;
 XX
 DR WPI; 2000-572271/53.
 DR N-PSDB; AAC50593.

XX
 PT Sixty four PRO polypeptides, useful in the diagnosis and treatment of
 PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
 PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus.
 XX
 PS Claim 33; Fig 30; 309pp; English.

XX
 The present invention describes sixty four human PRO proteins which can
 CC be used in the treatment of immune related diseases. The human PRO
 CC proteins, anti-PRO antibodies, agonists and antagonists are useful for
 CC treating and diagnosing immune related disorders. The disorders are
 CC selected from systemic lupus erythematosus, rheumatoid arthritis,
 CC osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,
 CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
 CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
 CC anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes mellitus,
 CC immune-mediated renal disease, demyelinating diseases of the central and

OS Homo sapiens.

XX
 FN WO200053758-A2.

XX
 14-SEP-2000.

PP 02-MAR-2000; 2000WO-US005841.

XX
 PR 08-MAR-1999; 99WO-US005028.

PR 10-MAR-1999; 99US-0123618P.

PR 12-MAR-1999; 99US-0123957P.

PR 23-MAR-1999; 99US-0125775P.

PR 12-APR-1999; 99US-0128849P.

PR 20-APR-1999; 99WO-US00815.

PR 28-APR-1999; 99US-013445P.

PR 04-MAY-1999; 99US-0123371P.

PR 14-MAY-1999; 99US-0134267P.

PR 02-JUN-1999; 99WO-US012252.

PR 23-JUN-1999; 99US-0141037P.

PR 20-JUL-1999; 99US-014478P.

PR 26-JUL-1999; 99US-0145698P.

PR 28-JUL-1999; 99US-0146222P.

PR 01-SEP-1999; 99US-0122111.

PR 08-SEP-1999; 99WO-US00594.

PR 13-SEP-1999; 99WO-US020944.

PR 15-SEP-1999; 99WO-US021090.

PR 05-OCT-1999; 99WO-US023089.

PR 29-OCT-1999; 99US-012506P.

PR 29-NOV-1999; 99WO-US028214.

PR 30-NOV-1999; 99WO-US028313.

PR 01-DEC-1999; 99WO-US028301.

PR 01-DEC-1999; 99WO-US028634.

PR 02-DEC-1999; 99WO-US028551.

PR 02-DEC-1999; 99WO-US028564.

PR 02-DEC-1999; 99WO-US028565.

PR 16-DEC-1999; 99WO-US028309.

PR 20-DEC-1999; 99WO-US03099.

PR 30-DEC-1999; 99WO-US01274.

PR 05-JAN-2000; 2000WO-US000219.

PR 06-JAN-2000; 2000WO-US000277.

PR 06-JAN-2000; 2000WO-US000376.

PR 11-FEB-2000; 2000WO-US003565.

PR 18-FEB-2000; 2000WO-US004341.

PR 18-FEB-2000; 2000WO-US004342.

PR 22-FEB-2000; 2000WO-US004344.

XX
 PA (GETH) GENENTECH INC.

XX
 PI Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
 PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
 PI Stewart TA, Tumas D, Watanabe CK, Wood WI, Yan M;
 XX
 DR WPI; 2000-572271/53.

Db 181 HLEKFKMDASAQQLAYKEKGHSOSQSSDQEIAHLPENVALPATAVASPHTS 240
 Qy 241 TPKPATLPLPTASVTPGTSQPLATTAPEPTVTSQPTPLISTVTRAATQMMATT 300
 Db 241 TPKPATLPLPTASVTPGTSQPLATTAPEPTVTSQPTPLISTVTRAATQMMATT 300
 Qy 301 AVLTTFQAPDPSKGSKLETTIPPEISNLNTNGVNPNTALSMNSNESTMNKTASWGR 360
 Db 301 AVLTTFQAPDPSKGSKLETTIPPEISNLNTNGVNPNTALSMNSNESTMNKTASWGR 360
 Qy 361 EASPGSSSQGSVPENQYGLPFEKWLIGSLFLGVLFVIGVLGLRILSLSRKKYRSRL 420
 Db 361 EASPGSSSQGSVPENQYGLPFEKWLIGSLFLGVLFVIGVLGLRILSLSRKKYRSRL 420
 Qy 421 DYLINGIYVDI 431
 Db 421 DYLINGIYVDI 431

RESULT 4
 AAB34739
 ID AAB34739 standard; protein; 431 AA.
 AC AAB34739;
 XX
 DT 26-JAN-2001 (first entry)
 XX
 DE Human secreted protein encoded by DNA clone vo27 1.
 XX
 KW Secreted protein; human; autoimmune disorder; multiple sclerosis; ulcer;
 KW systemic lupus erythematosus; rheumatoid arthritis; anaemia; stroke;
 KW haemopoiesis regulation; tissue regrowth; wound healing; haemophilia;
 KW Alzheimer's disease; Parkinson's disease; Shy-drager syndrome; cancer;
 KW contraceptive; infection; growth inhibition; hyperproliferative disorder;
 KW psoriasis.
 OS Homo sapiens.
 XX
 PN WO20005375-A1.
 XX
 PD 21-SEP-2000.
 PP 17-MAR-2000; 2000WO-US007285.
 XX
 PR 17-MAR-1999; 99US-0124908P.
 PR 17-MAR-1999; 99US-0124916P.
 PR 17-AUG-1999; 99US-0149339P.
 PR 01-OCT-1999; 99US-0157247P.
 PR 29-NOV-1999; 99US-0167824P.
 PR 15-FEB-2000; 2000US-0182711P.
 XX
 (ALPH-) ALPHAGENE INC.
 PI Valenzuela D, Yuan O, Hoffman H, Hall J, Rapleyko P;
 XX
 WPI: 2000-638211/61.
 DR N-PSDB; AC59840.

XX
 PT Novel proteins and polypeptides useful for the treatment of e.g. multiple sclerosis, systemic lupus erythematosus, rheumatoid arthritis, cancer, Alzheimer's disease, Parkinson's disease, stroke, anemia and ulcers.
 PS Claim 114; Page 453-455; 493pp; English.

XX
 CC This invention relates to 59 human secreted proteins and the nucleotide sequences encoding them. Sequences AC59788-C59846 and AAB34687-B34715 represent the proteins and their encoding nucleotide sequences, and sequences AAB34746-B3471 represent fragments of the proteins. Probes for the DNA sequences are represented by sequences AC59847-C59959. The proteins exhibit neuroprotective, dermatological, immunosuppressive, antiinflammatory, antianaemic, nootropic, antiparkinsonian, cerebroprotective, haemostatic, vulnerary, cytostatic, antipsoriatic,

CC anti-bacterial, virucide, and fungicide activity. The proteins and nucleotide sequences are useful as nutritional sources or supplements and in research. The proteins are useful for treating immune deficiency and disorders which may be genetic or resulting from infections, autoimmune disorders such as multiple sclerosis, systemic lupus erythematosus, rheumatoid arthritis, and for treating myeloid or lymphoid cell deficiencies such as anemias by regulating haematopoiesis. The proteins are also useful in compositions for bone, cartilage, tendon, ligament and/or nerve tissue growth or regeneration, for wound healing, tissue repair and replacement and in the treatment of wounds, incisions and ulcers. Other uses include in the treatment of central and peripheral nervous system and neuropathies such as Alzheimer's and Parkinson's diseases and Shy-Drager syndrome, and mechanical and traumatic disorders, such as spinal cord disorders, head trauma and stroke. The proteins may also be used as a contraceptive, and for treating coagulation disorders such as haemophilia. The protein and nucleotide sequences with catenin activity are useful for treating cancer. Other uses for the protein include for inhibiting the growth, infection or function of, or killing, infectious agents such as bacteria, virus, fungi and other parasites, for effecting bodily characteristics such as height, weight, hair colour, effecting biorhythms or cardiac cycles or rhythms, effecting metabolism, catabolism, anabolism, processing, utilization, storage or elimination of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, cofactors, effecting behavioural characteristics, providing analgesic effects and for treating hyperproliferative disorders such as psoriasis.

Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 3; Length 431;
 Best Local Similarity 100.0%; Pred. No. 3.6e-173;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MFFGGEGLTYTLVIFLTLRSLAQNCIJKSLDWDVQDQSSLSKGIRGNENPVYPTSQ 60
 Db 1 MFFGGEGLTYTLVIFLTLRSLAQNCIJKSLDWDVQDQSSLSKGIRGNENPVYPTSQ 60

Qy 61 EDCINSCCSTENISDKACNLMIDTRKTYARQPCYLFPCPNESACPLPKAGLMSYRII 120
 Db 61 EDCINSCCSTENISDKACNLMIDTRKTYARQPCYLFPCPNESACPLPKAGLMSYRII 120

Qy 121 TDFPSLTRNLPSQELPQESLHQFSQAVTPLAHHTYSKPDIDWMTLSQKFGSSD 180
 Db 121 TDFPSLTRNLPSQELPQESLHQFSQAVTPLAHHTYSKPDIDWMTLSQKFGSSD 180

Qy 181 HLEKFKMDASAQQLAYKEKGHSOSQSSDQEIAHLPENVALPATAVASPHTS 240
 Db 181 HLEKFKMDASAQQLAYKEKGHSOSQSSDQEIAHLPENVALPATAVASPHTS 240

Qy 241 TPKPATLPLPTASVTPGTSQPLATTAPEPTVTSQPTPLISTVTRAATQMMATT 300
 Db 241 TPKPATLPLPTASVTPGTSQPLATTAPEPTVTSQPTPLISTVTRAATQMMATT 300

Qy 301 AVLTTFQAPDPSKGSKLETTIPPEISNLNTNGVNPNTALSMNSNESTMNKTASWGR 360
 Db 301 AVLTTFQAPDPSKGSKLETTIPPEISNLNTNGVNPNTALSMNSNESTMNKTASWGR 360

Qy 361 EASPGSSSQGSVPENQYGLPFEKWLIGSLFLGVLFVIGVLGLRILSLSRKKYRSRL 420
 Db 361 EASPGSSSQGSVPENQYGLPFEKWLIGSLFLGVLFVIGVLGLRILSLSRKKYRSRL 420

Qy 421 DYLINGIYVDI 431
 Db 421 DYLINGIYVDI 431

RESULT 5
 AAB3464
 ID AAB35464 standard; protein; 431 AA.
 XX
 AC AAB35464;
 XX
 DT 26-JUN-2001 (first entry)

DE	Human protein sequence SEQ ID NO:17950.	Qy	181 HLEKLFKNDEASQQLAYKEKHSOSOSFSIDETIAHLLPENVSALPATAVASPHITSA 240	
XX	Human; primer; detection; diagnosis; antisense therapy; gene therapy.	Db	181 HLEKLFKNDEASQQLAYKEKHSOSOSFSIDETIAHLLPENVSALPATAVASPHITSA 240	
XX	Homo sapiens.	OS		
XX	EP1074617-A2.	PX		
PN		PR		
XX	07-FEB-2001.	PD		
XX		PF	28-JUL-2000; 2000EP-00116126.	
XX		PR	29-JUL-1999; 99JP-00248036.	
XX		PR	27-AUG-1999; 99JP-00300253.	
XX		PR	11-JUN-2000; 2000JP-00118776.	
XX		PR	02-MAY-2000; 2000JP-00183757.	
XX		PR	09-JUN-2000; 2000JP-00241899.	
PA	(HELI-) HELIX RES INST.	PR		
XX	Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;	PI		
XX	Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;	DR		
XX	WRI; 2001-318749/34.	XX		
PS	Claim 8; SEQ ID NO 17950; 2537pp + Sequence Listing; English.	XX		
XX	Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.	CC		
XX	The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification. Where a primer set comprises: (a) an oligo-dT primer and an oligonucleotide complementary to the complementary strand of a polynucleotide which comprises one of the 5602 nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a polynucleotide which comprises a 3'-end sequence, where the oligonucleotide comprises at least 15 nucleotides and the combination of the 5'-end sequence/3'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and in gene therapy. The primers are useful for synthesising polynucleotides, particularly full-length cDNAs. The primers are also useful for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs. The primers allow obtaining of the full-length cDNAs easily without any specialised methods. AHH03166 to AHH13628 and AHH13633 to AHH1842 represent human cDNA sequences; ABB2446 to ABB5893 represent human amino acid sequences; and AHH13629 to AHH13632 represent oligonucleotides, all of which are used in the exemplification of the present invention.	CC		
XX	Sequence 431 AA;	SQ		
Query Match	100.0%; Score 2211; DB 4; Length 431; Best Local Similarity 100.0%; Pred. No. 3.6e-173; Mismatches 0;保守性 431; Conservative Matches 0; Nucleotides 0; Gaps 0;	Match		
Qy	1 MPRCGEGSLTYLIVICFLTRLUSASQNLKKSLEDDVWIDIOSSLKGIRGNEPVYSTQ 60	1 MPRCGEGSLTYLIVICFLTRLUSASQNLKKSLEDDVWIDIOSSLKGIRGNEPVYSTQ 60	PR	05-FEB-2000; 2000WO-US000441.
Db	1 MPRCGEGSLTYLIVICFLTRLUSASQNLKKSLEDDVWIDIOSSLKGIRGNEPVYSTQ 60	1 MPRCGEGSLTYLIVICFLTRLUSASQNLKKSLEDDVWIDIOSSLKGIRGNEPVYSTQ 60	PR	24-FEB-2000; 2000WO-US004914.
Qy	61 EDCINSCSTKNSGDKACMLMIDPTKTRKARQPCYLYFCPCNEBACPKPKAGKLMYRIL 120	61 EDCINSCSTKNSGDKACMLMIDPTKTRKARQPCYLYFCPCNEBACPKPKAGKLMYRIL 120	PR	24-FEB-2000; 2000WO-US005004.
Db	61 EDCINSCSTKNSGDKACMLMIDPTKTRKARQPCYLYFCPCNEBACPKPKAGKLMYRIL 120	61 EDCINSCSTKNSGDKACMLMIDPTKTRKARQPCYLYFCPCNEBACPKPKAGKLMYRIL 120	PR	02-MAR-2000; 2000WO-US005841.
Qy	121 TDFPSLTRNLPSQELPQEDSLILHGQFSQAVTPLAHHTYDKPTDIDSWRTLSQKFGSSD 180	121 TDFPSLTRNLPSQELPQEDSLILHGQFSQAVTPLAHHTYDKPTDIDSWRTLSQKFGSSD 180	PR	15-MAR-2000; 2000WO-US006884.
Db	121 TDFPSLTRNLPSQELPQEDSLILHGQFSQAVTPLAHHTYDKPTDIDSWRTLSQKFGSSD 180	121 TDFPSLTRNLPSQELPQEDSLILHGQFSQAVTPLAHHTYDKPTDIDSWRTLSQKFGSSD 180	PR	20-MAR-2000; 2000WO-US007377.
PA	(GENT) GENENTECH INC.	XX		
PI	Askenazi AJ, Baker KP, Botsstein D, Desnoyers L, Eaton DL, Godowski PJ;	PI		
PI	Ferrara N, Fong S, Gerber H, Gerritsen ME, Godard A, Godowski PJ;	PI		

PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
 PI Zhang Z;
 XX DR WPI; 2001-032160/04.
 DR N-PSDB; AAF44268.
 PT PRO polynucleotides used to produce polypeptides used to target biocactive molecules such as toxins, radiolabels or antibodies, to specific cells, to cause targeted cell death.
 PT
 XX PS Claim 12; Fig 32B; 935pp; English.
 XX
 CC The present invention describes human secreted and transmembrane PRO proteins. The PRO proteins have cytostatic activity. The PRO proteins can be used for targeted delivery of bioactive molecules, such as toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide sequences, and their fragments, can be used as hybridisation probes, in chromosomal and gene mapping, and in the generation of anti-sense RNA and DNA. They may also be used to produce transgenic animals which are used to develop and screen therapeutically useful reagents. The PRO nucleotide and protein sequence can be used for tissue typing and in treating cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to AAF4470 represent PCR primers and hybridisation probes used in the isolation of human PRO sequences. AAF4407 to AAF44269 and AAB05154 to AAB05300 represent human PRO polynucleotide and protein sequences given in the exemplification of the present invention
 XX
 CC
 XX SQ Sequence 431 AA:
 Query Match 100 %; Score 2211; DB 4; Length 431;
 Best Local Similarity 100 %; Pred. No. 3.6e-173; Mismatches 0; Indels 0; Gaps 0;
 Matches 431; Conservative 0;
 QY 1 MFFGGGGSLLTIVICFLTRILSASQNSONCLKKSLEDWDVNIQSSSKGRGRNEPYTSTQ 60
 1 MFFGGGGSLLTIVICFLTRILSASQNSONCLKKSLEDWDVNIQSSSKGRGRNEPYTSTQ 60
 Db 61 BDCINSCCSTNKGKACNLMIFDTRKTRQPNCLFFCPNEACPLKPKGLMSYII 120
 61 BDCINSCCSTNKGKACNLMIFDTRKTRQPNCLFFCPNEACPLKPKGLMSYII 120
 QY 121 TDFPSLITRNLSQELQEDSLIHLGQSQAVPLAHHTDXSKPTDLSWRDLSQFGSSD 180
 121 TDFPSLITRNLSQELQEDSLIHLGQSQAVPLAHHTDXSKPTDLSWRDLSQFGSSD 180
 Db 181 HLEKUFRKMDERSAQLAYKEKCHGHSOSQFSSDQEIAHLLPENNSALPATAVASHTSA 240
 181 HLEKUFRKMDERSAQLAYKEKCHGHSOSQFSSDQEIAHLLPENNSALPATAVASHTSA 240
 Db 181 HLEKUFRKMDERSAQLAYKEKCHGHSOSQFSSDQEIAHLLPENNSALPATAVASHTSA 240
 QY 241 TPKPATLPLTPNASVTPSGTSQPLATTAPPVTVSQPTPLISTVTRAAQAMATT 300
 241 TPKPATLPLTPNASVTPSGTSQPLATTAPPVTVSQPTPLISTVTRAAQAMATT 300
 QY 301 AVLTTFQAPDPSKSGLETTPTESNLNTLQGNVNPNTALMSMSNESTNKTASWGR 360
 301 AVLTTFQAPDPSKSGLETTPTESNLNTLQGNVNPNTALMSMSNESTNKTASWGR 360
 Db 361 EASPGSSQSQQSPENQGLPKEKWLIGSLRGVLVFLVIGVLGRLISLRRGRYSL 420
 361 EASPGSSQSQQSPENQGLPKEKWLIGSLRGVLVFLVIGVLGRLISLRRGRYSL 420
 Db 421 DYLINGIYVDI 431
 421 DYLINGIYVDI 431
 PS RESULT 7
 ABU55934
 ID ABU55934 standard; protein; 431 AA.
 XX AC ABU55934;
 XX DT 26-MAR-2003 (first entry)

XX DE Human secreted/transmembrane protein PRO361.
 XX KW Human; PRO; secreted protein; transmembrane protein; anti-HIV;
 KW cytostatic; antiarteriosclerotic; antiinflammatory; antidiabetic;
 KW cardiot; AIDS; acquired immunodeficiency syndrome; cancer;
 KW atherosclerosis; inflammatory disease; diabetic complication;
 KW cardiac injury; organ failure.
 XX OS Homo sapiens.
 XX PN US2002142959-A1.
 XX PD 03-OCT-2002.
 XX PR 31-AUG-2001; 2001US-00944654.
 XX PR 16-SEP-1998; 93890-US019330.
 PR 01-DEC-1998; 93890-US0193108.
 PR 22-JUN-1999; 93900-US012252.
 PR 15-SEP-1999; 93900-US021090.
 PR 30-NOV-1999; 93900-US028313.
 PR 30-NOV-1999; 93900-US028409.
 PR 01-DEC-1999; 93900-US028301.
 PR 16-DEC-1999; 93900-US030095.
 PR 11-FEB-2000; 2000000-US003565.
 PR 22-FEB-2000; 2000000-US00414.
 PR 30-MAR-2000; 2000000-US005841.
 PR 02-MAR-2000; 2000000-US008439.
 PR 22-MAY-2000; 2000000-US014042.
 PR 28-JUL-2000; 2000000-US00710.
 PR 01-DEC-2000; 2000000-US012678.
 PR 28-FEB-2001; 2001000-US006520.
 PR 25-MAY-2001; 2001US-00866028.
 XX PA (GETH) GENENTECH INC.
 XX PR Baker KP, Botstein D, Baton DL, Ferrara N, Filvaroff E;
 PR Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL;
 PR Hillian KJ, Kijavim IJ, Napier MA, Roy MA, Tumas D, Wood WI;
 PR WPI; 2003-174141/17.
 PR N-PSDB; ABX75504.
 XX PT New isolated PRO polypeptide and encoding nucleic acid, useful for the diagnosis and treatment of disorders associated with the PRO polypeptide, such as AIDS, cancer, atherosclerosis, inflammatory disease and diabetes.
 XX PS Claim 12; Fig 32; 178pp; English.
 CC The invention relates to an isolated PRO polypeptide (a secreted or transmembrane protein) comprising: (a) at least 80% sequence identity or positive when compared to any of 15 sequences, fully defined in the specification, lacking or with its associated signal peptide; or (b) at least 80% sequence identity to a sequence encoded by the full-length coding sequence of a DNA deposited in the American Type Culture Collection (ATCC). Also included are: (1) an isolated nucleic acid comprising: (a) at least 80% sequence identity to a nucleic acid sequence that encodes a PRO protein; (b) at least 80% sequence identity to a nucleotide sequence or full-length coding sequence with any of 15 fully defined sequences of 937-341 base pairs, given in the specification, or (c) at least 80% sequence identity to a full-length coding sequence of a DNA deposited under ATCC Accession No. 20526, 209508, 209524, 209528, 209530, 209523, 209532, 209531, 209527, 209570, 209618, 209621 or 209619; (2) a vector comprising the nucleic acid; (3) a host cell comprising the vector which, when cultured under conditions suitable for expression of the PRO polypeptide, produces the PRO protein; (4) a chimeric molecule comprising PRO fused to a heterologous amino acid sequence; and (5) an anti-PRO antibody. The methods and compositions of the present invention are useful for the diagnosis and treatment of disorders associated with the PRO polypeptide, such as AIDS (acquired immunodeficiency syndrome), cancer, atherosclerosis, inflammatory disease, diabetic complications, cardiac injury and organ failure. The

CC antibodies can also be used in the different screening, therapeutic and biological assays. The present sequence represents a PRO protein
 CC
 XX
 SQ Sequence 431 AA:

Query	Match	100.0%: Score 2211; DB 6; Length 431;
Best Local Similarity	100.0%;	Pred. No. 3.6e-173;
Matches	431;	Conservative 0;
		Mismatches 0;
		Indels 0;
		Gaps 0;
QY	1	MFRGGGGSITLYTIVICPLTRILASQNCIJKSLEDVMDVIDQSSLSKGIRNEPYVTQ
Db	1	EDCINSGCCSTKNIISGDKACNLMIFDRXTADOPNCYLFCCNEACPLPKPKGLMSYRI
QY	61	EDCINSGCCSTKNIISGDKACNLMIFDRXTADOPNCYLFCCNEACPLPKPKGLMSYRI
Db	61	EDCINSGCCSTKNIISGDKACNLMIFDRXTADOPNCYLFCCNEACPLPKPKGLMSYRI
QY	121	TDFPSLITRNLSQELQEDSLIANGHQFSQAVPLAHHTDYKPTDLSWRDILSQKGSSD
Db	121	TDFPSLITRNLSQELQEDSLIANGHQFSQAVPLAHHTDYKPTDLSWRDILSQKGSSD
QY	181	HIEKLFKMDDEASQALAYKEKKGHSQSSQFSQSDQETAHLLPENSAJPTAVASPTSA
Db	181	HIEKLFKMDDEASQALAYKEKKGHSQSSQFSQSDQETAHLLPENSAJPTAVASPTSA
QY	241	TPKPATLPLTPTASVTSQGTSQPOLATTAPPVVTTSQOPTTISTVTRAATLQAMATT
Db	241	TPKPATLPLTPTASVTSQGTSQPOLATTAPPVVTTSQOPTTISTVTRAATLQAMATT
QY	301	AVLTTFQAPTDUSKGSLTIPPEIISNLTLNLTGNGVNTPTAAMSNTESSTNKTASWGR
Db	301	AVLTTFQAPTDUSKGSLTIPPEIISNLTLNLTGNGVNTPTAAMSNTESSTNKTASWGR
QY	361	EPSPGSSSOGSPPENQVGLPFEKWLITGSLIQLGVLELIGVULGLRILSESRKRSVL
Db	361	EPSPGSSSOGSPPENQVGLPFEKWLITGSLIQLGVLELIGVULGLRILSESRKRSVL
QY	421	DYLINGIYVDI 431
Db	421	DYLINGIYVDI 431
RESULT 8		
ABUS8114	ID	ABUS8114 standard; protein: 431 AA.
XX	AC	ABUS8114;
XX	DT	14-APR-2003 (first entry)
XX	DE	Human PRO polypeptide #146.
XX	KW	Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver; horse; cow; dog; cat; sheep; pig; goat; rabbit; ABPPT; antibody-dependent enzyme mediated prodrug therapy.
XX	OS	Homo sapiens.
XX	PN	US2003027163-A1.
XX	DD	06-FEB-2003.
XX	PP	15-NOV-2001; 2001US-00997666.
XX	PR	16-JUN-1997; 97US-0049767P.
PR	17-OCT-1997; 97US-006220P.	
PR	05-NOV-1997; 97WO-US020069.	
PR	12-NOV-1997; 97US-0065186P.	
PR	13-NOV-1997; 97US-0065311P.	
PR	24-NOV-1997; 97US-0066770P.	
PR	25-FEB-1998; 98US-0075945P.	
PR	20-MAR-1998; 98US-0078910P.	
PR	28-APR-1998; 98US-0083322P.	

PR 07-MAY-1998; 98US-008460P.
 PR 28-MAY-1998; 98US-0087160P.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087759P.
 PR 03-JUN-1998; 98US-0087827P.
 PR 04-JUN-1998; 98US-0089021P.
 PR 04-JUN-1998; 98US-0089025P.
 PR 04-JUN-1998; 98US-0089026P.
 PR 04-JUN-1998; 98US-0089028P.
 PR 04-JUN-1998; 98US-0089029P.
 PR 04-JUN-1998; 98US-0089030P.
 PR 04-JUN-1998; 98US-0089033P.
 PR 04-JUN-1998; 98US-0089167P.
 PR 05-JUN-1998; 98US-0089202P.
 PR 05-JUN-1998; 98US-0089212P.
 PR 05-JUN-1998; 98US-0089217P.
 PR 09-JUN-1998; 98US-0089655P.
 PR 10-JUN-1998; 98US-0088734P.
 PR 10-JUN-1998; 98US-0088738P.
 PR 10-JUN-1998; 98US-0089742P.
 PR 10-JUN-1998; 98US-0089810P.
 PR 10-JUN-1998; 98US-0089822P.
 PR 11-JUN-1998; 98US-0088611P.
 PR 11-JUN-1998; 98US-0088617P.
 PR 12-JUN-1998; 98US-0089105P.
 PR 16-JUN-1998; 98US-0089440P.
 PR 16-JUN-1998; 98US-0089512P.
 PR 16-JUN-1998; 98US-0089558P.
 PR 17-JUN-1998; 98US-0089532P.
 PR 17-JUN-1998; 98US-0089538P.
 PR 17-JUN-1998; 98US-0089540P.
 PR 17-JUN-1998; 98US-0089544P.
 PR 17-JUN-1998; 98US-0089553P.
 PR 17-JUN-1998; 98US-0089558P.
 PR 17-JUN-1998; 98US-0089560P.
 PR 17-JUN-1998; 98US-0089562P.
 PR 17-JUN-1998; 98US-0089564P.
 PR 17-JUN-1998; 98US-0089566P.
 PR 17-JUN-1998; 98US-0089568P.
 PR 17-JUN-1998; 98US-0089570P.
 PR 18-JUN-1998; 98US-0089572P.
 PR 18-JUN-1998; 98US-0089574P.
 PR 18-JUN-1998; 98US-0089576P.
 PR 19-JUN-1998; 98US-0089577P.
 PR 19-JUN-1998; 98US-0089578P.
 PR 19-JUN-1998; 98US-0089579P.
 PR 19-JUN-1998; 98US-0089580P.
 PR 19-JUN-1998; 98US-0089581P.
 PR 18-JUN-1998; 98US-0089582P.
 PR 18-JUN-1998; 98US-0089583P.
 PR 18-JUN-1998; 98US-0089584P.
 PR 18-JUN-1998; 98US-0089585P.
 PR 18-JUN-1998; 98US-0089586P.
 PR 19-JUN-1998; 98US-0089587P.
 PR 19-JUN-1998; 98US-0089588P.
 PR 19-JUN-1998; 98US-0089589P.
 PR 19-JUN-1998; 98US-0089590P.
 PR 19-JUN-1998; 98US-0089591P.
 PR 19-JUN-1998; 98US-0089592P.
 PR 22-JUN-1998; 98US-0090246P.
 PR 22-JUN-1998; 98US-0090252P.
 PR 22-JUN-1998; 98US-0090254P.
 PR 22-JUN-1998; 98US-0090349P.
 PR 23-JUN-1998; 98US-0090355P.
 PR 23-JUN-1998; 98US-0090429P.
 PR 24-JUN-1998; 98US-0090431P.
 PR 24-JUN-1998; 98US-0090435P.
 PR 24-JUN-1998; 98US-0090444P.
 PR 24-JUN-1998; 98US-0090445P.
 PR 24-JUN-1998; 98US-0090472P.
 PR 24-JUN-1998; 98US-0090535P.
 PR 24-JUN-1998; 98US-0090542P.
 PR 24-JUN-1998; 98US-0090547P.
 PR 24-JUN-1998; 98US-0090577P.
 PR 25-JUN-1998; 98US-0090676P.
 PR 25-JUN-1998; 98US-0090678P.
 PR 25-JUN-1998; 98US-0090690P.
 PR 25-JUN-1998; 98US-0090694P.
 PR 25-JUN-1998; 98US-0090695P.
 PR 25-JUN-1998; 98US-0090696P.
 PR 26-JUN-1998; 98US-0090662P.
 PR 26-JUN-1998; 98US-0090663P.
 PR 01-JUN-1998; 98US-0091360P.
 PR 02-JUN-1998; 98US-0091478P.
 PR 02-JUN-1998; 98US-0091519P.
 PR 02-JUN-1998; 98US-0091626P.
 PR 02-JUN-1998; 98US-0091628P.

PR	02-JUL-1998;	98US-0091636P.
PR	02-JUL-1998;	98US-0091637P.
PR	07-JUL-1998;	98US-0091708P.
PR	07-JUL-1998;	98US-0091982P.
PR	10-JUL-1998;	98US-0092182P.
PR	20-JUL-1998;	98US-0093339P.
PR	04-AUG-1998;	98US-0094651P.
PR	04-AUG-1998;	98US-0095282P.
PR	04-AUG-1998;	98US-0095282P.
PR	04-AUG-1998;	98US-0095301P.
PR	04-AUG-1998;	98US-0095302P.
PR	04-AUG-1998;	98US-0095318P.
PR	04-AUG-1998;	98US-0095321P.
PR	10-AUG-1998;	98US-0095916P.
PR	10-AUG-1998;	98US-0095929P.
PR	10-AUG-1998;	98US-0096012P.
PR	11-AUG-1998;	98US-0096143P.
PR	11-AUG-1998;	98US-0096146P.
PR	12-AUG-1998;	98US-0096329P.
PR	17-AUG-1998;	98US-0096757P.
PR	17-AUG-1998;	98US-0096766P.
PR	17-AUG-1998;	98US-0096768P.
PR	17-AUG-1998;	98US-0096773P.
PR	17-AUG-1998;	98US-0096791P.
PR	17-AUG-1998;	98US-0096867P.
PR	17-AUG-1998;	98US-01096891P.
PR	17-AUG-1998;	98US-0096894P.
PR	17-AUG-1998;	98US-01096895P.
PR	17-AUG-1998;	98US-01096897P.
PR	18-AUG-1998;	98US-0096949P.
PR	18-AUG-1998;	98US-01096950P.
PR	18-AUG-1998;	98US-01096950P.
PR	18-AUG-1998;	98US-0096960P.
PR	18-AUG-1998;	98US-0097022P.
PR	19-AUG-1998;	98US-01097141P.
PR	20-AUG-1998;	98US-0097218P.
PR	24-AUG-1998;	98US-0097661P.
PR	26-AUG-1998;	98US-00977952P.
PR	26-AUG-1998;	98US-0097954P.
PR	26-AUG-1998;	98US-0097955P.
PR	26-AUG-1998;	98US-0097971P.
PR	26-AUG-1998;	98US-0097974P.
PR	26-AUG-1998;	98US-0097978P.
PR	26-AUG-1998;	98US-0097979P.
PR	26-AUG-1998;	98US-0097986P.
PR	26-AUG-1998;	98US-0098014P.
PR	31-AUG-1998;	98US-01098528P.
PR	16-SEP-1998;	99US-0100634P.
PR	17-SEP-1998;	98US-0100888P.
PR	17-SEP-1998;	98WO-US019437.
PR	07-OCT-1998;	98WO-US021141.
PR	01-DEC-1998;	98WO-US025108.
PR	22-DEC-1998;	98US-0113296P.
PR	05-JAN-1999;	99US-US01016.
PR	08-MAR-1999;	99WO-US005028.
PR	12-MAR-1999;	99US-0123957P.
PR	02-JUN-1999;	99WO-US012252.
PR	07-JUL-1999;	99US-0141037P.
PR	20-JUL-1999;	99US-0144758P.
PR	26-JUL-1999;	99US-0145698P.
PR	17-AUG-1999;	99US-0149396P.
PR	15-SEP-1999;	99WO-US021090.
PR	15-SEP-1999;	99WO-US021547.
PR	08-OCT-1999;	99US-015663P.
PR	30-NOV-1999;	99WO-US028313.
PR	01-DEC-1999;	99WO-US028301.
PR	01-DEC-1999;	99WO-US028634.

KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
 KW cardiac insufficiency disorder; cancer; tumour; immune response;
 KW adrenal cortical capillary endothelial growth; c-fos induction;
 KW vascular endothelial growth factor inhibition; VEGF inhibition;
 KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
 KW retinal neurons cell survival; rod photoreceptor cell survival;
 KW retinal disorder; retinitis pigmentosum; kidney disorder;
 KW mammalian kidney mesangial cell proliferation; Beiger disease;
 KW dermatitis; herpetiform; Crohn's disease;
 KW chondrocyte redifferentiation; sports injury; arthritis.
 XX OS Homo sapiens.
 XX
 PN US2002132252-A1.
 XX
 PD 19-SEP-2002.
 XX
 PR 14-NOV-2001; 2001US-00990442.
 XX
 PR 16-JUN-1997; 97US-0049787P.
 PR 17-OCT-1997; 97US-0062250P.
 PR 05-NOV-1997; 97WO-US020069.
 PR 12-NOV-1997; 97US-0065186P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 24-NOV-1997; 97US-0066770P.
 PR 25-FEB-1998; 98US-0075945P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 28-APR-1998; 98US-0083322P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 02-JUN-1998; 98US-0087607P.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087759P.
 PR 03-JUN-1998; 98US-0087827P.
 PR 04-JUN-1998; 98US-0088021P.
 PR 04-JUN-1998; 98US-0088025P.
 PR 04-JUN-1998; 98US-0088026P.
 PR 04-JUN-1998; 98US-0088028P.
 PR 04-JUN-1998; 98US-0088029P.
 PR 04-JUN-1998; 98US-0088030P.
 PR 04-JUN-1998; 98US-0088033P.
 PR 05-JUN-1998; 98US-0088336P.
 PR 05-JUN-1998; 98US-0088416P.
 PR 05-JUN-1998; 98US-0088202P.
 PR 05-JUN-1998; 98US-0088212P.
 PR 05-JUN-1998; 98US-0088217P.
 PR 09-JUN-1998; 98US-0088655P.
 PR 10-JUN-1998; 98US-0088734P.
 PR 10-JUN-1998; 98US-0088738P.
 PR 10-JUN-1998; 98US-0088742P.
 PR 10-JUN-1998; 98US-0088810P.
 PR 10-JUN-1998; 98US-0088824P.
 PR 10-JUN-1998; 98US-0088825P.
 PR 11-JUN-1998; 98US-0088828P.
 PR 11-JUN-1998; 98US-0088861P.
 PR 12-JUN-1998; 98US-0088866P.
 PR 16-JUN-1998; 98US-0089440P.
 PR 16-JUN-1998; 98US-0089512P.
 PR 16-JUN-1998; 98US-0089514P.
 PR 17-JUN-1998; 98US-0089532P.
 PR 17-JUN-1998; 98US-0089538P.
 PR 17-JUN-1998; 98US-0089538P.
 PR 17-JUN-1998; 98US-0089599P.
 PR 17-JUN-1998; 98US-0089600P.
 PR 17-JUN-1998; 98US-0089633P.
 PR 18-JUN-1998; 98US-0089801P.
 PR 18-JUN-1998; 98US-0089907P.
 PR 18-JUN-1998; 98US-0089908P.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98WO-US019437.
 PR 07-OCT-1998; 98WO-US021141.
 PR 01-DEC-1998; 98WO-US025108.

PR 05-JAN-1999; 99WO-US000106.
 PR 08-MAR-1999; 99WO-US005028.
 PR 02-JUN-1999; 99WO-US012252.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US038634.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 06-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US004914.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 15-MAR-2000; 2000WO-US008884.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 15-MAY-2000; 2000WO-US013358.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 20-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US-006520.
 PR 01-JUN-2001; 2001WO-US-007800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUN-2001; 2001WO-US021735.
 PR 28-AUG-2001; 2001US-00941992.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Borstein D, Desnoyers L, Gattou DL,
 PI Ferrara N, Fong S, Gerber H, Geertsen ME, Goddard A, Godowski PJ,
 PI Grimaldi JC, Gong S, Gurney AL, Klagsbund IJ, Napier MA, Pan J, Paoni NF,
 PI Roy MA, Stewart TA, Tunas D, Watanae CK, Williams PM, Wood WI;
 PI Zhang Z;
 XX
 DR WPI; 2003-247093/24.
 XX
 N-PSDB; ABX80473.

PT Novel isolated PRO polypeptides e.g., PRO825, PRO1068, PRO1184, PRO1346 and PRO1375, which stimulate proliferation of stimulated T-lymphocytes and are therapeutically useful for enhancing immune response and in cancer treatments.

XX
 PS Claim 12; Fig 328; 648pp; English.

XX
 The invention describes an isolated human PRO polypeptide. The PRO polypeptides are useful in detecting PRO polypeptides in a sample, in linking a bioactive molecule to a cell expressing a PRO polypeptide, and in modulating at least one biological activity of a cell expressing a PRO polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186 stimulate adrenal cortical capillary endothelial growth, and PRO536, PRO943, PRO828, PRO26, PRO1068 or PRO335, PRO826, PRO819, PRO126, PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus useful for treating conditions or disorders where angiogenesis would be beneficial, e.g. wound healing and antagonist of this polypeptide are useful for treating cancerous tumours. PRO812 inhibits vascular endothelial growth factor (VEGF). Stimulated proliferation of endothelial cells and thus useful for inhibiting endothelial cell growth in mammals which would be beneficial in inhibiting tumour growth. PRO826,

CC	PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of stimulated T-lymphocytes and are therapeutically useful for enhancing immune response. PRO828, PRO856, PRO1058 or PRO1132 enhance survival of retinal neurons cells (PRO1132 is also enhances survival/proliferation of rod photoreceptor cells) and therefore are useful for treating retinal disorders of injuries, e.g. retinitis pigmentosum, AMD, PRO819, PRO813 and PRO1166 induce proliferation of mammalian kidney mesangial cells, and therefore are useful for treating kidney disorders associated with decreased mesangial cell function such as Berger disease or other nephropathies associated with dermatitis, herpetiformis or Crohn's disease. PRO1101, PRO844, PRO1312, PRO1192 and PRO1387 induce the proliferation and/or redifferentiation of chondrocytes in culture and are thus useful for treating sports injuries, and arthritis.	PN	US2003032023-A1.
CC	thus useful for treating kidney disorders associated with decreased mesangial cell function such as Berger disease or other nephropathies associated with dermatitis, herpetiformis or Crohn's disease. PRO1101, PRO844, PRO1312, PRO1192 and PRO1387 induce the proliferation and/or redifferentiation of chondrocytes in culture and are thus useful for treating sports injuries, and arthritis. This is the amino acid sequence of a novel human PRO protein	XX	XX
XX	Sequence 431 AA:	PR	13-FEB-2003.
XX	Query Match 100.0%; Score 2211; DB 6; Length 431;	PR	14-NOV-2001; 2001US-00990711.
Best Local Similarity 100.0%; Pred. No. 3.6e-173; Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	PR	16-JUN-1997; 97US-0049787P.	
Qy 1 MFFGGRSLLTIVLICFLTRILSASQNCNSQSSSKGTRGNEPYVTSTQ	PR	17-OCT-1997; 97US-0052250P.	
Db 1 MFFGGRSLLTIVLICFLTRILSASQNCNSQSSSKGTRGNEPYVTSTQ	PR	05-NOV-1997; 97WO-US20069.	
Qy 61 EDCINSCCSTNIISGDACKACNUMFDPRTKATRQPNVYLCFCNEEACPLKPKAGLMSYII	PR	12-NOV-1997; 97US-0055186P.	
Db 61 EDCINSCCSTNIISGDACKACNUMFDPRTKATRQPNVYLCFCNEEACPLKPKAGLMSYII	PR	13-NOV-1997; 97US-0055311P.	
Qy 121 TDPPSLTRNLPSQELQEDSDLSLHQGQSAVTPPLAHHTDYSKPTDISWRDQLSQRGSSD	PR	24-NOV-1997; 97US-0066770P.	
Db 121 TDPPSLTRNLPSQELQEDSDLSLHQGQSAVTPPLAHHTDYSKPTDISWRDQLSQRGSSD	PR	25-FEB-1998; 98US-0075945P.	
Qy 181 HLEKLFMRDEASAQQLAYKEKGHSQSOSSQDQETAHLPENNSALPATWAVASPTTSA	PR	26-MAR-1998; 98US-0078910P.	
Db 181 HLEKLFMRDEASAQQLAYKEKGHSQSOSSQDQETAHLPENNSALPATWAVASPTTSA	PR	28-APR-1998; 98US-008332P.	
Qy 241 TPKPATLPLPTASVTPSGTSPQLATTPAPPVTVSQPTTILSTVFRATAATLQWATT	PR	07-MAY-1998; 98US-008460P.	
Db 241 TPKPATLPLPTASVTPSGTSPQLATTPAPPVTVSQPTTILSTVFRATAATLQWATT	PR	28-MAY-1998; 98US-0087160P.	
Qy 301 AVLTTFQAPDSKGSLETIPTEISLNTLNGVNVNTALSMSNVSFSTNKTASWGR	PR	02-JUN-1998; 98US-0087607P.	
Db 301 AVLTTFQAPDSKGSLETIPTEISLNTLNGVNVNTALSMSNVSFSTNKTASWGR	PR	02-JUN-1998; 98US-0087609P.	
Qy 361 EASPGSSSQGSVPENQGLPPERKWLJGSLIFGVLFLVIGVLGLRILSSETRRKYSL	PR	02-JUN-1998; 98US-0087759P.	
Db 361 EASPGSSSQGSVPENQGLPPERKWLJGSLIFGVLFLVIGVLGLRILSSETRRKYSL	PR	03-JUN-1998; 98US-0087827P.	
Qy 421 DYLINGIYVDI 431	PR	04-JUN-1998; 98US-0088021P.	
Db 421 DYLINGIYVDI 431	PR	04-JUN-1998; 98US-0088025P.	
RESULT 10	PR	04-JUN-1998; 98US-0088026P.	
ABU82704	PR	04-JUN-1998; 98US-0088028P.	
ID ABU82704 standard; protein; 431 AA.	PR	04-JUN-1998; 98US-0088029P.	
XX	PR	04-JUN-1998; 98US-0088030P.	
AC ABU82704;	PR	04-JUN-1998; 98US-0088033P.	
XX	PR	04-JUN-1998; 98US-0088034P.	
DT 26-JUN-2003 (first entry)	PR	04-JUN-1998; 98US-0088035P.	
XX	PR	04-JUN-1998; 98US-0088036P.	
DE Human secreted/transmembrane protein PRO361.	PR	04-JUN-1998; 98US-0088037P.	
XX	PR	04-JUN-1998; 98US-0088038P.	
KW Human; PRO; secreted protein; transmembrane protein; cancerous tumour; immune response; retinal disorder; sight loss;	PR	04-JUN-1998; 98US-0088039P.	
KW cardiac insufficiency disorders; angiogenesis; wound healing; retinitis pigmentosa; age-related macular degeneration; AMD;	PR	04-JUN-1998; 98US-0088040P.	
KW kidney disorder; Berger disease; nephropathy; dermatitis; herpetiformis; Crohn's disease; sports injury; arthritis.	PR	04-JUN-1998; 98US-0088041P.	
OS Homo sapiens.	PR	04-JUN-1998; 98US-0088043P.	
XX	PR	04-JUN-1998; 98US-0088044P.	
ABU82704	PR	04-JUN-1998; 98US-0088045P.	
XX	PR	04-JUN-1998; 98US-00880472P.	
AC ABU82704;	PR	04-JUN-1998; 98US-0088053P.	
XX	PR	04-JUN-1998; 98US-0090540P.	
DT 26-JUN-2003 (first entry)	PR	04-JUN-1998; 98US-0090542P.	
XX	PR	04-JUN-1998; 98US-0090544P.	
KW Human; PRO; secreted protein; transmembrane protein; cancerous tumour; immune response; retinal disorder; sight loss;	PR	04-JUN-1998; 98US-0090545P.	
KW cardiac insufficiency disorders; angiogenesis; wound healing; retinitis pigmentosa; age-related macular degeneration; AMD;	PR	04-JUN-1998; 98US-0090546P.	
KW kidney disorder; Berger disease; nephropathy; dermatitis; herpetiformis; Crohn's disease; sports injury; arthritis.	PR	04-JUN-1998; 98US-0090547P.	
OS Homo sapiens.	PR	04-JUN-1998; 98US-0090548P.	

PR 24-JUN-1998; 98US-0090557P. PR 25-JUN-1998; 98US-0090676P. PR 25-JUN-1998; 98US-0090678P. PR 25-JUN-1998; 98US-0090690P. PR 25-JUN-1998; 98US-0090694P. PR 25-JUN-1998; 98US-0090695P. PR 25-JUN-1998; 98US-0090696P. PR 26-JUN-1998; 98US-0090862P. PR 01-JUL-1998; 98US-0091360P. PR 01-JUL-1998; 98US-0091544P. PR 02-JUL-1998; 98US-0091673P. PR 02-JUL-1998; 98US-009178P. PR 02-JUL-1998; 98US-0091626P. PR 02-JUL-1998; 98US-0091628P. PR 02-JUL-1998; 98US-0091633P. PR 02-JUL-1998; 98US-0091646P. PR 07-JUL-1998; 98US-0091673P. PR 07-JUL-1998; 98US-0091978P. PR 07-JUL-1998; 98US-0091982P. PR 09-JUL-1998; 98US-0092182P. PR 10-JUL-1998; 98US-0092472P. PR 20-JUL-1998; 98US-0093339P. PR 30-JUL-1998; 98US-009451P. PR 04-AUG-1998; 98US-0095282P. PR 04-AUG-1998; 98US-0095385P. PR 04-AUG-1998; 98US-0095301P. PR 04-AUG-1998; 98US-0095302P. PR 04-AUG-1998; 98US-0095318P. PR 04-AUG-1998; 98US-0095321P. PR 04-AUG-1998; 98US-0095325P. PR 10-AUG-1998; 98US-0095316P. PR 10-AUG-1998; 98US-0095929P. PR 10-AUG-1998; 98US-0096012P. PR 11-AUG-1998; 98US-0096143P. PR 11-AUG-1998; 98US-0096146P. PR 12-AUG-1998; 98US-0096329P. PR 17-AUG-1998; 98US-0096757P. PR 17-AUG-1998; 98US-0096766P. PR 17-AUG-1998; 98US-0096768P. PR 17-AUG-1998; 98US-0096773P. PR 17-AUG-1998; 98US-0096791P. PR 17-AUG-1998; 98US-0096391P. PR 17-AUG-1998; 98US-0096394P. PR 17-AUG-1998; 98US-0096395P. PR 17-AUG-1998; 98US-0096377P. PR 18-AUG-1998; 98US-0096349P. PR 18-AUG-1998; 98US-0096350P. PR 18-AUG-1998; 98US-0096359P. PR 18-AUG-1998; 98US-0096360P. PR 18-AUG-1998; 98US-0097022P. PR 19-AUG-1998; 98US-0097141P. PR 20-AUG-1998; 98US-0097218P. PR 24-AUG-1998; 98US-0097661P. PR 26-AUG-1998; 98US-0097952P. PR 26-AUG-1998; 98US-0097954P. PR 26-AUG-1998; 98US-0097955P. PR 26-AUG-1998; 98US-0097971P. PR 26-AUG-1998; 98US-0097974P. PR 26-AUG-1998; 98US-0097978P. PR 26-AUG-1998; 98US-0097979P. PR 17-SEP-1998; 98WO-US010838P. PR 17-SEP-1998; 98WO-US019437. PR 07-OCT-1998; 98WO-US02111. PR 01-DEC-1998; 98WO-US025108. PR 05-MAY-1999; 99WO-US000106.

PR 08-MAR-1999; 99WO-US005028. PR 12-MAR-1999; 99US-0123957P. PR 02-JUN-1999; 99WO-US012252. PR 23-JUN-1999; 99US-0141037P. PR 07-JUL-1999; 99US-0143048P. PR 20-JUL-1999; 99US-0144758P. PR 26-JUL-1999; 99US-014568P. PR 28-JUL-1999; 99US-0146222P. PR 17-AUG-1999; 99US-0149396P. PR 15-SEP-1999; 99WO-US021090. PR 15-SEP-1999; 99WO-US021547. PR 08-OCT-1999; 99US-0158663P. PR 05-JAN-1999; 99WO-US021547. PR 06-JAN-2000; 2000WO-US000376. PR 01-FEB-2000; 2000WO-US028301. PR 18-FEB-2000; 2000WO-US006365. PR 22-FEB-2000; 2000WO-US004414. PR 24-FEB-2000; 2000WO-US000219. PR 02-MAR-2000; 2000WO-US05841. PR 10-MAR-2000; 2000WO-US006319. PR 15-MAR-2000; 2000WO-US006884. PR 20-MAR-2000; 2000WO-US007377. PR 30-MAR-2000; 2000WO-US008439. PR 15-MAY-2000; 2000WO-US013358. PR 17-MAY-2000; 2000WO-US013705. PR 22-MAY-2000; 2000WO-US014042. PR 30-MAY-2000; 2000WO-US014941. PR 02-JUN-2000; 2000WO-US015264. PR 23-JUN-2000; 2000US-0216337P. PR 28-JUL-2000; 2000WO-US00710. PR 11-AUG-2000; 2000WO-US023031.

Query Match 100 %; Score 2211; DB 6; Length 431; Best Local Similarity 100 %; Pred. No. 3. 6e-173; Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPPGGCGSLITYLWVICFLTRLISASQNCUKKSLDWDVVIDQISSLGKGIGRNGEPYPTQ 60
1 MPPGGCGSLITYLWVICFLTRLISASQNCUKKSLDWDVVIDQISSLGKGIGRNGEPYPTQ 60
Db 61 EDCINCCSTKNSIGKACNUMIDTRKTAQPNCLFFPNEEACPLPKAKGLMSYRII 120
61 EDCINCCSTKNSIGKACNUMIDTRKTAQPNCLFFPNEEACPLPKAKGLMSYRII 120
Db 121 TDPFSLTRNLPSQELPOEDSLHGFQSAVPLAHHHTDYSKPTDISWRDLSOKRGSSD 180
121 TDPFSLTRNLPSQELPOEDSLHGFQSAVPLAHHHTDYSKPTDISWRDLSOKRGSSD 180
QY 181 HLEKUFMDERASQAQLAYKEKCHQSQQFSSDQEIAHLLPENNSALPATAVASHTSA 240
181 HLEKUFMDERASQAQLAYKEKCHQSQQFSSDQEIAHLLPENNSALPATAVASHTSA 240
Db 241 TPKPATLPLTNAVSPTSGTSOPQLAATTAPVTTVSQPTTLISTVTRAATLQAMATT 300
241 TPKPATLPLTNAVSPTSGTSOPQLAATTAPVTTVSQPTTLISTVTRAATLQAMATT 300
Db 301 AVLTTRFOAPTDKSKELETPPTEISNLNTANTGNTYNTPLTALMSNVESSSTNKTAWSGR 360
301 AVLTTRFOAPTDKSKELETPPTEISNLNTANTGNTYNTPLTALMSNVESSSTNKTAWSGR 360
QY 361 EASPGSSQSGVPEONYGLPPEKWMUJSLFGVILGLRILSLRKRYSRL 420
361 EASPGSSQSGVPEONYGLPPEKWMUJSLFGVILGLRILSLRKRYSRL 420
Db 361 EASPGSSQSGVPEONYGLPPEKWMUJSLFGVILGLRILSLRKRYSRL 420
QY 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431

RESULT 11

ABU6023 ID ABU6023 standard; protein; 431 AA.

XX AC ABU6023; XX DT 01-MAY-2003 (first entry)

DE Human secreted/transmembrane protein, #182.

XX KW Human; PRO; secreted; transmembrane; signal peptide; pharmaceutical; diagnostic; therapeutic; gene therapy.

XX OS Homo sapiens.

XX PN US2002160384-A1.

XX PD 31-OCT-2002.

XX PP 14-NOV-2001; 2001US-00992598.

PR 16-JUN-1997; 97US-0049787P.

PR 17-OCT-1997; 97US-0062350P.

PR 05-NOV-1997; 97WO-US020069.

PR 12-NOV-1997; 97US-0065186P.

PR 13-NOV-1997; 97US-0065311P.

PR 24-NOV-1997; 97US-0066770P.

PR 25-FEB-1998; 98US-0075945P.

PR 20-MAR-1998; 98US-0077810P.

PR 28-APR-1998; 98US-0083322P.

PR 07-MAY-1998; 98US-0084600P.

PR 28-MAY-1998; 98US-0087106P.

PR 02-JUN-1998; 98US-0087607P.

PR 02-JUN-1998; 98US-0087609P.

PR 03-JUN-1998; 98US-0087759P.

PR 04-JUN-1998; 98US-0088021P.

PR 04-JUN-1998; 98US-0088025P.

PR 04-JUN-1998; 98US-0088028P.

PR 04-JUN-1998; 98US-0088030P.

PR 04-JUN-1998; 98US-0088033P.

PR 04-JUN-1998; 98US-008826P.

PR 04-JUN-1998; 98US-0088317P.

PR 05-JUN-1998; 98US-0088320P.

PR 05-JUN-1998; 98US-00883217P.

PR 05-JUN-1998; 98US-0088555P.

PR 05-JUN-1998; 98US-0088734P.

PR 10-JUN-1998; 98US-0088738P.

PR 10-JUN-1998; 98US-0088742P.

PR 10-JUN-1998; 98US-0088910P.

PR 10-JUN-1998; 98US-0088924P.

PR 10-JUN-1998; 98US-0088926P.

PR 11-JUN-1998; 98US-0088932P.

PR 11-JUN-1998; 98US-0088961P.

PR 11-JUN-1998; 98US-0088976P.

PR 12-JUN-1998; 98US-0089105P.

PR 16-JUN-1998; 98US-0089440P.

PR 16-JUN-1998; 98US-0089512P.

PR 16-JUN-1998; 98US-0089514P.

PR 17-JUN-1998; 98US-0089532P.

PR 17-JUN-1998; 98US-0089538P.

PR 17-JUN-1998; 98US-0089598P.

PR 17-JUN-1998; 98US-0089599P.

PR 17-JUN-1998; 98US-0089600P.

PR 17-JUN-1998; 98US-0089653P.

PR 18-JUN-1998; 98US-0089801P.

PR 18-JUN-1998; 98US-0089907P.

PR 18-JUN-1998; 98US-0089908P.

PR 16-SEP-1998; 98WO-US019330.

PR 17-SEP-1998; 98WO-US019437.

PR 07-OCT-1998; 98WO-US021141.

PR 01-DEC-1998; 98WO-US025108.

PR 05-JAN-1999; 98WO-US000105.

PR 08-MAR-1999; 98WO-US005028.

PR 02-JUN-1999; 98WO-US012252.

PR 15-SEP-1999; 98WO-US021090.

PR 15-SEP-1999; 98WO-US021547.

PR 30-NOV-1999; 98WO-US028313.

PR 01-DEC-1999; 98WO-US028301.

PR 01-DEC-1999; 98WO-US028634.

PR 16-DEC-1999; 98WO-US030095.

PR 20-DEC-1999; 98WO-US030911.

PR 05-JAN-2000; 2000WO-US000219.

PR 06-JAN-2000; 2000WO-US000376.

PR 11-FEB-2000; 2000WO-US033565.

PR 18-FEB-2000; 2000WO-US004341.

PR 22-FEB-2000; 2000WO-US004414.

PR 24-FEB-2000; 2000WO-US004914.

PR 24-FEB-2000; 2000WO-US00504.

PR 02-MAR-2000; 2000WO-US005841.

PR 10-MAR-2000; 2000WO-US006319.

PR 15-MAR-2000; 2000WO-US006884.

PR 20-MAR-2000; 2000WO-US007377.

PR 30-MAR-2000; 2000WO-US008439.

PR 15-MAY-2000; 2000WO-US013358.

PR 17-MAY-2000; 2000WO-US013705.

PR 22-MAY-2000; 2000WO-US014042.

PR 30-MAY-2000; 2000WO-US014941.

PR 02-JUN-2000; 2000WO-US015264.

PR 28-JUL-2000; 2000WO-US020710.

PR 11-AUG-2000; 2000WO-US022331.

PR 23-AUG-2000; 2000WO-US023522.

PR 08-NOV-2000; 2000WO-US023328.

PR 01-DEC-2000; 2000WO-US032678.

PR 28-FEB-2001; 2001WO-US006520.

PR 01-JUN-2001; 2001WO-US017800.

PR 20-JUN-2001; 2001WO-US019692.

PR 24-AUG-2001; 2001WO-US021066.

PR 09-JUL-2001; 2001WO-US021735.

PR 28-AUG-2001; 2001US-00941992.

XX PA (GETH) GENENTECH INC.

XX PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Baton DL, Godowski PJ, Ferrara N, Fong S, Gerber H, Garritsen MB, Goddard A, Grimaldi JC, Gurney AL, KJalvin IJ, Napier MA, Pan J, Paoni NF, PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI, PI Zhang Z, XX DR WPI: 2003-288106/28.

XX N-PSDB; ABX90451.

XX The invention discloses isolated PRO secreted/transmembrane polypeptides comprising a sequence without signal peptide and the nucleic acid encoding them. The polypeptides can be used to raise antibodies that specifically bind to the PRO polypeptide, for linking a bioactive molecule to a cell expressing a PRO protein and for modulating at least one biological activity of a cell. The PRO polypeptides or polynucleotides are also useful in gene therapy, in chromosome identification, as chromosome markers, or in generating probes. The PRO polypeptides are useful as molecular markers for protein electrophoresis, and the isolated nucleic acids may be used for recombinantly expressing those markers. The PRO polypeptides and nucleic acids may also be used in tissue typing. Anti-PRO antibodies are useful in diagnostic assays for

PRO, and in affinity purification of PRO from recombinant cell culture or natural sources. The Sequences presented in ABU6078-ABU60624 are the PRO polynucleotides of the invention. Note: The sequence data for this patent is also available in electronic format from USPTO at seqdata.uspto.gov/sequence.html

SQ Sequence 431 AA:

Query	Match	Score	DB	Length	
Best Local Similarity	100.0%	2211	6	431	
Matches	431;	Pred. No.	3.6e-173;		
	Conservative	0;	Mismatches	0;	
		Indels	0;	Gaps	0;
Qy	1	MPFGGEGSLTIVLIVICPLTRLISASQNCNLKSLLEDVWIDQSSLSKGIRSNEPVYSTQ	60		
Db	1	MFFGGEGSLTIVLIVICPLTRLISASQNCNLKSLLEDVWIDQSSLSKGIRSNEPVYSTQ	60		
Qy	61	EDCINSGCCSTKNTSGDKACNLMIFDTRKTAQPNCYLFFCNEACPLPKAGLMSYRII	120		
Db	61	EDCINSGCCSTKNTSGDKACNLMIFDTRKTAQPNCYLFFCNEACPLPKAGLMSYRII	120		
Qy	121	TDFPSLTRLNLSQBLPQEDSLILHGQFSQAVTPLAHHTDYSRPTDLSWRDLSQKFGSD	180		
Db	121	TDFPSLTRLNLSQBLPQEDSLILHGQFSQAVTPLAHHTDYSRPTDLSWRDLSQKFGSD	180		
Qy	181	HLEKLFNDEASQBLAYKEKKGHSQSSQFSDQEIABLPPENSAIPATAVASPTSA	240		
Db	181	HLEKLFNDEASQBLAYKEKKGHSQSSQFSDQEIABLPPENSAIPATAVASPTSA	240		
Qy	241	TRKPATLPLPTNASVTPGTSQPOLATTAAPPVTTVTSQOPTTILSTVTPRAATLQAMATT	300		
Db	241	TRKPATLPLPTNASVTPGTSQPOLATTAAPPVTTVTSQOPTTILSTVTPRAATLQAMATT	300		
Qy	301	AVLTTFQAPTDKGSLETIPTEISNLNTGNVNTPTAAMSNTYESSTMKNTASWGR	360		
Db	301	AVLTTFQAPTDKGSLETIPTEISNLNTGNVNTPTAAMSNTYESSTMKNTASWGR	360		
Qy	361	EASPGSSSQGSPENQYGLPFEKWLJLGSFLGVLELIGVILGLRILSESLRKYSRL	420		
Db	361	EASPGSSSQGSPENQYGLPFEKWLJLGSFLGVLELIGVILGLRILSESLRKYSRL	420		
Qy	421	DYLINGYVDI 431			
Db	421	DYLINGYVDI 431			

RESULT 12

ID	ABU14005	ABU14005 standard; protein: 431 AA.
AC	ABU14005;	
XX		
DT	26-FEB-2003 (first entry)	
DE	Human PRO361 polypeptide.	
XX		
KW	Human; PRO polypeptide; secreted protein; transmembrane protein;	
KW	genetic disorder; antibacterial; immunosuppressive.	
XX		
OS	Homo sapiens.	
XX		
PN	US2002103125-A1.	
XX		
PR	16-JUN-1997; 97US-004978P.	
PR	17-OCT-1997; 97US-006225P.	
PR	05-NOV-1997; 97WO-US020069.	
PR	12-NOV-1997; 97US-006518P.	
PR	13-NOV-1997; 97US-006531P.	
PR	24-NOV-1997; 97US-0066770P.	
PR	25-FEB-1998; 98US-0075945P.	

PR	20-MAR-1998; 98US-007910P.
PR	28-APR-1998; 98US-008332P.
PR	07-MAY-1998; 98US-008460P.
PR	28-MAY-1998; 98US-008710P.
PR	02-JUN-1998; 98US-008760P.
PR	02-JUN-1998; 98US-008775P.
PR	03-JUN-1998; 98US-0087827P.
PR	04-JUN-1998; 98US-0088021P.
PR	04-JUN-1998; 98US-0088025P.
PR	04-JUN-1998; 98US-0088026P.
PR	04-JUN-1998; 98US-0088028P.
PR	04-JUN-1998; 98US-0088029P.
PR	04-JUN-1998; 98US-0088030P.
PR	04-JUN-1998; 98US-0088033P.
PR	04-JUN-1998; 98US-0088036P.
PR	05-JUN-1998; 98US-0088038P.
PR	05-JUN-1998; 98US-0088212P.
PR	05-JUN-1998; 98US-0088217P.
PR	09-JUN-1998; 98US-0088655P.
PR	10-JUN-1998; 98US-0088734P.
PR	10-JUN-1998; 98US-0088826P.
PR	10-JUN-1998; 98US-0088833P.
PR	10-JUN-1998; 98US-0088842P.
PR	10-JUN-1998; 98US-0088846P.
PR	10-JUN-1998; 98US-0088847P.
PR	10-JUN-1998; 98US-0088848P.
PR	10-JUN-1998; 98US-0088849P.
PR	11-JUN-1998; 98US-0088851P.
PR	11-JUN-1998; 98US-0088852P.
PR	11-JUN-1998; 98US-0088853P.
PR	11-JUN-1998; 98US-0088854P.
PR	12-JUN-1998; 98US-0089105P.
PR	12-JUN-1998; 98US-0089440P.
PR	16-JUN-1998; 98US-0089512P.
PR	16-JUN-1998; 98US-0089858P.
PR	16-JUN-1998; 98US-0089859P.
PR	17-JUN-1998; 98US-0089901P.
PR	17-JUN-1998; 98US-0089907P.
PR	18-JUN-1998; 98US-0089908P.
PR	16-SEP-1998; 98WO-US019330.
PR	17-SEP-1998; 98WO-US019437.
PR	07-OCT-1998; 98WO-US021141.
PR	01-DEC-1998; 98WO-US023108.
PR	05-JAN-1999; 98WO-US000106.
PR	08-MAR-1999; 98WO-US005028.
PR	02-JUN-1999; 99WO-US012252.
PR	15-SEP-1999; 99WO-US021090.
PR	15-SEP-1999; 99WO-US021547.
PR	30-NOV-1999; 99WO-US02313.
PR	01-DEC-1999; 99WO-US028301.
PR	01-DEC-1999; 99WO-US028334.
PR	16-DEC-1999; 99WO-US030995.
PR	22-FEB-2000; 2000WO-US004414.
PR	24-FEB-2000; 2000WO-US004914.
PR	06-JAN-2000; 2000WO-US000219.
PR	06-JAN-2000; 2000WO-US000376.
PR	11-FEB-2000; 2000WO-US003565.
PR	18-FEB-2000; 2000WO-US004341.
PR	22-FEB-2000; 2000WO-US004414.
PR	30-MAR-2000; 2000WO-US008439.
PR	15-MAY-2000; 2000WO-US013358.
PR	17-MAY-2000; 2000WO-US013370.
PR	22-MAY-2000; 2000WO-US014042.
PR	30-MAY-2000; 2000WO-US014941.

PR 02-JUN-2000; 2000WO-US012264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 11-AUG-2000; 2000WO-US024031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 08-NOV-2000; 2000WO-US030952.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US005520.
 PR 01-JUN-2001; 2001WO-US1780.
 PR 29-JUN-2001; 2001WO-US019692.
 PR 09-JUL-2001; 2001WO-US021066.
 PR 28-AUG-2001; 2001US-00941992.
 XX PA (GETH) GENENTECH LTD.
 XX PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL; Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ; Grimaldi JC, Gurney AL, Kilaviv IJ, Napier MA, Pan J, Paoni NF; Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI; Zhang Z; XX DR N-PSDB; AX64297.
 XX WPI; 2003-102117/09.
 XX PT Novel secreted and transmembrane polypeptide for modulating biological activity of cell expressing the polypeptide, identifying agonists or antagonists of polypeptide, and as molecular weight markers.
 XX PS Claim 12; Fig 328; 649pp; English.
 XX The present invention relates to the isolation of novel human PRO polypeptides, and the polynucleotide sequences encoding them. The PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptides are useful for detecting other PRO polypeptides, for linking bioactive molecules to cells expressing PRO polypeptides, for modulating biological activities of cells expressing PRO polypeptides, and for for encoding PRO polypeptides are useful as hybridisation probes, in chromosome and gene mapping, in the generation of antisense RNA and DNA, in the preparation of PRO polypeptides, for generating transgenic animals or knockout animals, to construct hybridisation probes for mapping the gene which encodes the PRO polypeptide, and for the genetic analysis of individuals with genetic disorders, in gene therapy, for chromosome identification, as chromosome markers, and for generating probes for PCR, Northern analysis, Southern analysis and Western analysis. ABU13860-CC ABU4006 represent the human PRO polypeptides of the invention. Note: The sequence data for this patent was obtained in electronic format directly from the USPTO web site at usdata.uspto.gov/pstpubidentry.html.
 XX Sequence 431 AA:
 Query Match 100.0%; Score 2211; DB 6; Length 431;
 Best Local Similarity 100.0%; Pred. No. 3.6e-173; Mismatches 0; Indels 0; Gaps 0; Matches 431; Conservative 0; MisMatches 0; Del 0; Insert 0;
 QY 1 MFFGGAGSLTVTIVICPLTRILSASQNCIKSLQEDWVQDQSLSKGIRGNEPYVSTQ 60
 Db 1 MFFGGAGSLTVTIVICPLTRILSASQNCIKSLQEDWVQDQSLSKGIRGNEPYVSTQ 60
 QY 61 EDCINCQGSTNISQELQEDSTLHQGFSQAVPVLARRHTDKSKPTDLSWRDPLSQKFGSSD 120
 Db 61 EDCINCQGSTNISQELQEDSTLHQGFSQAVPVLARRHTDKSKPTDLSWRDPLSQKFGSSD 120
 QY 121 TDFPSLTRNLISQELQEDSTLHQGFSQAVPVLARRHTDKSKPTDLSWRDPLSQKFGSSD 180
 Db 121 TDFPSLTRNLISQELQEDSTLHQGFSQAVPVLARRHTDKSKPTDLSWRDPLSQKFGSSD 180
 QY 181 HELEKLKQDEASAQQLAYKEKGHSQSOSQESQETAHLLPENVALPATAVASPTTSA 240
 Db 181 HELEKLKQDEASAQQLAYKEKGHSQSOSQESQETAHLLPENVALPATAVASPTTSA 240
 QY 241 TPKPATLPLNASYVPSGTSQPLATTAPVTTISQPTLISVFTRAATQMMT 300
 PR 241 TPKPATLPLNASYVPSGTSQPLATTAPVTTISQPTLISVFTRAATQMMT 300
 Db 301 AVLTTFFQAPTDKSKELETPPTESNLNTLNTGNVNTPTALSMNVESTMKPASWGR 360
 QY 301 AVLTTFFQAPTDKSKELETPPTESNLNTLNTGNVNTPTALSMNVESTMKPASWGR 360
 Db 361 EASPGSSQSVPEONYGLPFKEKMLLGSULFGVLFVGLVGLGRILSESLRKRYSL 420
 QY 361 EASPGSSQSVPEONYGLPFKEKMLLGSULFGVLFVGLVGLGRILSESLRKRYSL 420
 Db 421 DYLINGIVVDI 431
 QY 421 DYLINGIVVDI 431
 Db 421 DYLINGIVVDI 431

RESULT 13
 ABU6224
 ID ABU6244 standard; protein; 431 AA.
 XX AC ABU6244;
 XX DT 24-APR-2003 (first entry)
 XX DE Human PRO polypeptide #15.
 XX Human; PRO; secreted polypeptide; transmembrane Polypeptide; cancer; inflammation; disease; atherosclerosis; cardiac injury; AIDS; infertility; birth defect; premature aging; diabetes; dog; cat; horse; industry; cytostatic; antiinflammatory; cardiant; antiinfertility; anti-HIV; antiarteriosclerotic; antidiabetic.
 XX OS Homo sapiens.
 XX PN US2002132768 A1.
 XX PD 19-SEP-2002.
 XX FP 31-AUG-2001; 2001US-00945015.
 XX PR 03-DEC-1997; 97US-0067411P.
 PR 11-DEC-1997; 97US-0069278P.
 PR 11-DEC-1997; 97US-0069334P.
 PR 11-DEC-1997; 97US-0069335P.
 PR 12-DEC-1997; 97US-0069425P.
 PR 16-DEC-1997; 97US-0069649P.
 PR 16-DEC-1997; 97US-0069669P.
 PR 16-DEC-1997; 97US-0069702P.
 PR 17-DEC-1997; 97US-0069870P.
 PR 18-DEC-1997; 97US-0069873P.
 PR 09-FEB-1998; 97US-0068017P.
 PR 05-JAN-1998; 97US-007406P.
 PR 09-FEB-1998; 97US-0074092P.
 PR 25-FEB-1998; 97US-0075945P.
 PR 16-SEP-1998; 97US-0019330.
 PR 01-DEC-1998; 97US-0025108.
 PR 16-DEC-1998; 97US-00216021.
 PR 16-DEC-1998; 97US-0112850P.
 PR 22-DEC-1998; 97US-00218517.
 PR 03-MAR-1999; 97US-0113296P.
 PR 22-JUN-1999; 97US-0012252P.
 PR 15-SEP-1999; 97US-0146222P.
 PR 30-NOV-1999; 97US-0021090P.
 PR 30-NOV-1999; 97US-011329313.
 PR 01-DEC-1999; 97US-0128409.
 PR 16-DEC-1999; 97US-0030095.
 PR 11-FEB-2000; 2000US-003565.
 PR 22-FEB-2000; 2000US-004141.
 PR 02-MAR-2000; 2000US-005841.

PR 30-MAR-2000; 2000WO-US008439.
 PR 22-MAY-2000; 2000WO-US01042.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 01-DEC-2000; 2000WO-US035678.
 PR 28-FEB-2001; 2001WO-US00520.
 PR 25-MAY-2001; 2001US-00866028.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Botstein D, Eaton DL, Ferrara N, Filvaroff E, Gerritsen MB, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Klijvin IJ, Napier MA, Roy MA, Tumas D, Wood WI; XX DR WPI; 2003-174088/17.
 DR N-PSTD; ABX89495.
 XX
 PT New secreted and transmembrane polypeptides (e.g. PRO241, for use in pharmaceuticals, diagnostics or bioreactors, particularly for detecting PT or treating e.g. cancers, infertility or acquired immunodeficiency syndrome in mammals.
 XX
 PS Claim 1; Fig 32; 173pp; English.
 XX
 CC The invention relates to a human secreted and transmembrane polypeptide (PRO) and the polynucleotide encoding it. The PRO polypeptide or polynucleotide is useful in pharmaceuticals, diagnostics, biosensors or bioreactors. These are particularly useful for detecting or treating cancers, inflammatory diseases, atherosclerosis, cardiac injury, infertility, birth defects, premature ageing, acquired immunodeficiency syndrome (AIDS) and diabetic complications in mammals, e.g. humans, dogs, cats, cattle, horses, sheep, pigs, goats or rabbits. The sequences are also useful in biotechnological, medical and medical research and in various industrial applications. Sequences ABU60230-ABU60245 represent human PRO CC polypeptides of the invention
 XX
 SQ sequence 431 AA;

Query Match 100.0%; Score 2211; DB 6; Length 431;
 Best Local Similarity 100.0%; Pred. No. 3.6e-173; Mismatches 0; Indels 0; Gaps 0; Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Ov 1 MFFGGESSLTYYTIVICPFLTLUSASONCLKUSLEDVYDIOSSLKGIRNEPYVISTQ 60
 1 MFPFGEGSLTYTIVICPFLTLUSASONCLKUSLEDVYDIOSSLKGIRNEPYVISTQ 60
 Db 61 EDCINSCCSTKNTSGDKACNLMFDTRKTRAPQNCYVLPFCPNEACLKPAKGLMSYRI 120
 Ov 61 EDCINSCCSTKNTSGDKACNLMFDTRKTRAPQNCYVLPFCPNEACLKPAKGLMSYRI 120
 Db 61 EDCINSCCSTKNTSGDKACNLMFDTRKTRAPQNCYVLPFCPNEACLKPAKGLMSYRI 120
 Ov 121 TDFPSLTNLPSQELPQDSLHGFQSOAVTPLAHHTDYSKPTDLSWRDTISQKFGSSD 180
 121 TDFPSLTNLPSQELPQDSLHGFQSOAVTPLAHHTDYSKPTDLSWRDTISQKFGSSD 180
 Db 181 HFLKLFKNDASQQLAYKEKHSQSOFSQDEIAHLPENSAFATVAVASPHQSA 240
 181 HFLKLFKNDASQQLAYKEKHSQSOFSQDEIAHLPENSAFATVAVASPHQSA 240
 Ov 241 TPKPATLIPITNAVSPTSGTSQPOLATAPPVTVTSQPTPLISTVTRAALQAMATT 300
 241 TPKPATLIPITNAVSPTSGTSQPOLATAPPVTVTSQPTPLISTVTRAALQAMATT 300
 Db 241 TPKPATLIPITNAVSPTSGTSQPOLATAPPVTVTSQPTPLISTVTRAALQAMATT 300
 Ov 301 AVLTITFQAPTSKGLSTIPFTEISNITLNTGNYMPTALMSNVSSTMTKTAASMEGR 360
 301 AVLTITFQAPTSKGLSTIPFTEISNITLNTGNYMPTALMSNVSSTMTKTAASMEGR 360
 361 RASPGSSQSVENQYSLPPEWNLGLSLQEVLFVIGVILGRLSERKRSRL 420
 361 RASPGSSQSVENQYSLPPEWNLGLSLQEVLFVIGVILGRLSERKRSRL 420
 Db 421 DYLINGIVVDI 431
 421 DYLINGIVVDI 431
 421 DYLINGIVVDI 431

RESULT 14
 ABUT2590
 ID ABUT2590 standard; protein; 431 AA.
 XX
 AC ABUT2590;
 XX DT 17-JUN-2003 (first entry)
 XX DE Novel human secreted and transmembrane protein PRO361.
 XX Human: secreted and transmembrane protein; cytostatic; anti-HIV; KW virucide; hepatotropic; antiinflammatory; neuroprotective; gene therapy; PRO; pharmaceutical; diagnostic; biosensor; bioreactor; malignancy; cancer; ovarian cancer; colorectal cancer; Kapoor's sarcoma; leukaemia; KW lymphoma; hepatitis B; multiple sclerosis; Crohn's disease; KW drug screening.
 XX OS Homo sapiens.
 XX PN US200300531-A1.
 PD 02-JAN-2003.
 XX PR 19-NOV-2001; 2001US-00989734.
 PR 02-JUN-1998; 98US-0087609P.
 PR 02-JUN-1998; 98US-0087759P.
 PR 03-JUN-1998; 98US-0087827P.
 PR 04-JUN-1998; 98US-0088025P.
 PR 04-JUN-1998; 98US-0088026P.
 PR 04-JUN-1998; 98US-0088027P.
 PR 04-JUN-1998; 98US-0088029P.
 PR 04-JUN-1998; 98US-0088030P.
 PR 04-JUN-1998; 98US-0088031P.
 PR 04-JUN-1998; 98US-0088033P.
 PR 04-JUN-1998; 98US-0088036P.
 PR 05-JUN-1998; 98US-0088126P.
 PR 05-JUN-1998; 98US-0088127P.
 PR 05-JUN-1998; 98US-0088128P.
 PR 05-JUN-1998; 98US-0088129P.
 PR 05-JUN-1998; 98US-0088130P.
 PR 05-JUN-1998; 98US-0088131P.
 PR 05-JUN-1998; 98US-0088132P.
 PR 05-JUN-1998; 98US-0088133P.
 PR 05-JUN-1998; 98US-0088134P.
 PR 05-JUN-1998; 98US-0088135P.
 PR 05-JUN-1998; 98US-0088136P.
 PR 05-JUN-1998; 98US-0088137P.
 PR 05-JUN-1998; 98US-0088138P.
 PR 05-JUN-1998; 98US-0088139P.
 PR 05-JUN-1998; 98US-0088140P.
 PR 05-JUN-1998; 98US-0088141P.
 PR 05-JUN-1998; 98US-0088142P.
 PR 05-JUN-1998; 98US-0088143P.
 PR 05-JUN-1998; 98US-0088144P.
 PR 05-JUN-1998; 98US-0088145P.
 PR 05-JUN-1998; 98US-0088146P.
 PR 05-JUN-1998; 98US-0088147P.
 PR 05-JUN-1998; 98US-0088148P.
 PR 05-JUN-1998; 98US-0088149P.
 PR 05-JUN-1998; 98US-0088150P.
 PR 05-JUN-1998; 98US-0088151P.
 PR 05-JUN-1998; 98US-0088152P.
 PR 05-JUN-1998; 98US-0088153P.
 PR 05-JUN-1998; 98US-0088154P.
 PR 05-JUN-1998; 98US-0088155P.
 PR 05-JUN-1998; 98US-0088156P.
 PR 05-JUN-1998; 98US-0088157P.
 PR 05-JUN-1998; 98US-0088158P.
 PR 05-JUN-1998; 98US-0088159P.
 PR 05-JUN-1998; 98US-0088160P.
 PR 05-JUN-1998; 98US-0088161P.
 PR 05-JUN-1998; 98US-0088162P.
 PR 05-JUN-1998; 98US-0088163P.
 PR 05-JUN-1998; 98US-0088164P.
 PR 05-JUN-1998; 98US-0088165P.
 PR 05-JUN-1998; 98US-0088166P.
 PR 05-JUN-1998; 98US-0088167P.
 PR 05-JUN-1998; 98US-0088168P.
 PR 05-JUN-1998; 98US-0088169P.
 PR 05-JUN-1998; 98US-0088170P.
 PR 05-JUN-1998; 98US-0088171P.
 PR 05-JUN-1998; 98US-0088172P.
 PR 05-JUN-1998; 98US-0088173P.
 PR 05-JUN-1998; 98US-0088174P.
 PR 05-JUN-1998; 98US-0088175P.
 PR 05-JUN-1998; 98US-0088176P.
 PR 05-JUN-1998; 98US-0088177P.
 PR 05-JUN-1998; 98US-0088178P.
 PR 05-JUN-1998; 98US-0088179P.
 PR 05-JUN-1998; 98US-0088180P.
 PR 05-JUN-1998; 98US-0088181P.
 PR 05-JUN-1998; 98US-0088182P.
 PR 05-JUN-1998; 98US-0088183P.
 PR 05-JUN-1998; 98US-0088184P.
 PR 05-JUN-1998; 98US-0088185P.
 PR 05-JUN-1998; 98US-0088186P.
 PR 05-JUN-1998; 98US-0088187P.
 PR 05-JUN-1998; 98US-0088188P.
 PR 05-JUN-1998; 98US-0088189P.
 PR 05-JUN-1998; 98US-0088190P.
 PR 05-JUN-1998; 98US-0088191P.
 PR 05-JUN-1998; 98US-0088192P.
 PR 05-JUN-1998; 98US-0088193P.
 PR 05-JUN-1998; 98US-0088194P.
 PR 05-JUN-1998; 98US-0088195P.
 PR 05-JUN-1998; 98US-0088196P.
 PR 05-JUN-1998; 98US-0088197P.
 PR 05-JUN-1998; 98US-0088198P.
 PR 05-JUN-1998; 98US-0088199P.
 PR 05-JUN-1998; 98US-0088200P.
 PR 05-JUN-1998; 98US-0088201P.
 PR 05-JUN-1998; 98US-0088202P.
 PR 05-JUN-1998; 98US-0088203P.
 PR 05-JUN-1998; 98US-0088204P.
 PR 05-JUN-1998; 98US-0088205P.
 PR 05-JUN-1998; 98US-0088206P.
 PR 05-JUN-1998; 98US-0088207P.
 PR 05-JUN-1998; 98US-0088208P.
 PR 05-JUN-1998; 98US-0088209P.
 PR 05-JUN-1998; 98US-0088210P.
 PR 05-JUN-1998; 98US-0088211P.
 PR 05-JUN-1998; 98US-0088212P.
 PR 05-JUN-1998; 98US-0088213P.
 PR 05-JUN-1998; 98US-0088214P.
 PR 05-JUN-1998; 98US-0088215P.
 PR 05-JUN-1998; 98US-0088216P.
 PR 05-JUN-1998; 98US-0088217P.
 PR 05-JUN-1998; 98US-0088218P.
 PR 05-JUN-1998; 98US-0088219P.
 PR 05-JUN-1998; 98US-0088220P.
 PR 05-JUN-1998; 98US-0088221P.
 PR 05-JUN-1998; 98US-0088222P.
 PR 05-JUN-1998; 98US-0088223P.
 PR 05-JUN-1998; 98US-0088224P.
 PR 05-JUN-1998; 98US-0088225P.
 PR 05-JUN-1998; 98US-0088226P.
 PR 05-JUN-1998; 98US-0088227P.
 PR 05-JUN-1998; 98US-0088228P.
 PR 05-JUN-1998; 98US-0088229P.
 PR 05-JUN-1998; 98US-0088230P.
 PR 05-JUN-1998; 98US-0088231P.
 PR 05-JUN-1998; 98US-0088232P.
 PR 05-JUN-1998; 98US-0088233P.
 PR 05-JUN-1998; 98US-0088234P.
 PR 05-JUN-1998; 98US-0088235P.
 PR 05-JUN-1998; 98US-0088236P.
 PR 05-JUN-1998; 98US-0088237P.
 PR 05-JUN-1998; 98US-0088238P.
 PR 05-JUN-1998; 98US-0088239P.
 PR 05-JUN-1998; 98US-0088240P.
 PR 05-JUN-1998; 98US-0088241P.
 PR 05-JUN-1998; 98US-0088242P.
 PR 05-JUN-1998; 98US-0088243P.
 PR 05-JUN-1998; 98US-0088244P.
 PR 05-JUN-1998; 98US-0088245P.
 PR 05-JUN-1998; 98US-0088246P.
 PR 05-JUN-1998; 98US-0088247P.
 PR 05-JUN-1998; 98US-0088248P.
 PR 05-JUN-1998; 98US-0088249P.
 PR 05-JUN-1998; 98US-0088250P.
 PR 05-JUN-1998; 98US-0088251P.
 PR 05-JUN-1998; 98US-0088252P.
 PR 05-JUN-1998; 98US-0088253P.
 PR 05-JUN-1998; 98US-0088254P.
 PR 05-JUN-1998; 98US-0088255P.
 PR 05-JUN-1998; 98US-0088256P.
 PR 05-JUN-1998; 98US-0088257P.
 PR 05-JUN-1998; 98US-0088258P.
 PR 05-JUN-1998; 98US-0088259P.
 PR 05-JUN-1998; 98US-0088260P.
 PR 05-JUN-1998; 98US-0088261P.
 PR 05-JUN-1998; 98US-0088262P.
 PR 05-JUN-1998; 98US-0088263P.
 PR 05-JUN-1998; 98US-0088264P.
 PR 05-JUN-1998; 98US-0088265P.
 PR 05-JUN-1998; 98US-0088266P.
 PR 05-JUN-1998; 98US-0088267P.
 PR 05-JUN-1998; 98US-0088268P.
 PR 05-JUN-1998; 98US-0088269P.
 PR 05-JUN-1998; 98US-0088270P.
 PR 05-JUN-1998; 98US-0088271P.
 PR 05-JUN-1998; 98US-0088272P.
 PR 05-JUN-1998; 98US-0088273P.
 PR 05-JUN-1998; 98US-0088274P.
 PR 05-JUN-1998; 98US-0088275P.
 PR 05-JUN-1998; 98US-0088276P.
 PR 05-JUN-1998; 98US-0088277P.
 PR 05-JUN-1998; 98US-0088278P.
 PR 05-JUN-1998; 98US-0088279P.
 PR 05-JUN-1998; 98US-0088280P.
 PR 05-JUN-1998; 98US-0088281P.
 PR 05-JUN-1998; 98US-0088282P.
 PR 05-JUN-1998; 98US-0088283P.
 PR 05-JUN-1998; 98US-0088284P.
 PR 05-JUN-1998; 98US-0088285P.
 PR 05-JUN-1998; 98US-0088286P.
 PR 05-JUN-1998; 98US-0088287P.
 PR 05-JUN-1998; 98US-0088288P.
 PR 05-JUN-1998; 98US-0088289P.
 PR 05-JUN-1998; 98US-0088290P.
 PR 05-JUN-1998; 98US-0088291P.
 PR 05-JUN-1998; 98US-0088292P.
 PR 05-JUN-1998; 98US-0088293P.
 PR 05-JUN-1998; 98US-0088294P.
 PR 05-JUN-1998; 98US-0088295P.
 PR 05-JUN-1998; 98US-0088296P.
 PR 05-JUN-1998; 98US-0088297P.
 PR 05-JUN-1998; 98US-0088298P.
 PR 05-JUN-1998; 98US-0088299P.
 PR 05-JUN-1998; 98US-0088300P.
 PR 05-JUN-1998; 98US-0088301P.
 PR 05-JUN-1998; 98US-0088302P.
 PR 05-JUN-1998; 98US-0088303P.
 PR 05-JUN-1998; 98US-0088304P.
 PR 05-JUN-1998; 98US-0088305P.
 PR 05-JUN-1998; 98US-0088306P.
 PR 05-JUN-1998; 98US-0088307P.
 PR 05-JUN-1998; 98US-0088308P.
 PR 05-JUN-1998; 98US-0088309P.
 PR 05-JUN-1998; 98US-0088310P.
 PR 05-JUN-1998; 98US-0088311P.
 PR 05-JUN-1998; 98US-0088312P.
 PR 05-JUN-1998; 98US-0088313P.
 PR 05-JUN-1998; 98US-0088314P.
 PR 05-JUN-1998; 98US-0088315P.
 PR 05-JUN-1998; 98US-0088316P.
 PR 05-JUN-1998; 98US-0088317P.
 PR 05-JUN-1998; 98US-0088318P.
 PR 05-JUN-1998; 98US-0088319P.
 PR 05-JUN-1998; 98US-0088320P.
 PR 05-JUN-1998; 98US-0088321P.
 PR 05-JUN-1998; 98US-0088322P.
 PR 05-JUN-1998; 98US-0088323P.
 PR 05-JUN-1998; 98US-0088324P.
 PR 05-JUN-1998; 98US-0088325P.
 PR 05-JUN-1998; 98US-0088326P.
 PR 05-JUN-1998; 98US-0088327P.
 PR 05-JUN-1998; 98US-0088328P.
 PR 05-JUN-1998; 98US-0088329P.
 PR 05-JUN-1998; 98US-0088330P.
 PR 05-JUN-1998; 98US-0088331P.
 PR 05-JUN-1998; 98US-0088332P.
 PR 05-JUN-1998; 98US-0088333P.
 PR 05-JUN-1998; 98US-0088334P.
 PR 05-JUN-1998; 98US-0088335P.
 PR 05-JUN-1998; 98US-0088336P.
 PR 05-JUN-1998; 98US-0088337P.
 PR 05-JUN-1998; 98US-0088338P.
 PR 05-JUN-1998; 98US-0088339P.
 PR 05-JUN-1998; 98US-0088340P.
 PR 05-JUN-1998; 98US-0088341P.
 PR 05-JUN-1998; 98US-0088342P.
 PR 05-JUN-1998; 98US-0088343P.
 PR 05-JUN-1998; 98US-0088344P.
 PR 05-JUN-1998; 98US-0088345P.
 PR 05-JUN-1998; 98US-0088346P.
 PR 05-JUN-1998; 98US-0088347P.
 PR 05-JUN-1998; 98US-0088348P.
 PR 05-JUN-1998; 98US-0088349P.
 PR 05-JUN-1998; 98US-0088350P.
 PR 05-JUN-1998; 98US-0088351P.
 PR 05-JUN-1998; 98US-0088352P.
 PR 05-JUN-1998; 98US-0088353P.
 PR 05-JUN-1998; 98US-0088354P.
 PR 05-JUN-1998; 98US-0088355P.
 PR 05-JUN-1998; 98US-0088356P.
 PR 05-JUN-1998; 98US-0088357P.
 PR 05-JUN-1998; 98US-0088358P.
 PR 05-JUN-1998; 98US-0088359P.
 PR 05-JUN-1998; 98US-0088360P.
 PR 05-JUN-1998; 98US-0088361P.
 PR 05-JUN-1998; 98US-0088362P.
 PR 05-JUN-1998; 98US-0088363P.
 PR 05-JUN-1998; 98US-0088364P.
 PR 05-JUN-1998; 98US-0088365P.
 PR 05-JUN-1998; 98US-0088366P.
 PR 05-JUN-1998; 98US-0088367P.
 PR 05-JUN-1998; 98US-0088368P.
 PR 05-JUN-1998; 98US-0088369P.
 PR 05-JUN-1998; 98US-0088370P.
 PR 05-JUN-1998; 98US-0088371P.
 PR 05-JUN-1998; 98US-0088372P.
 PR 05-JUN-1998; 98US-0088373P.
 PR 05-JUN-1998; 98US-0088374P.
 PR 05-JUN-1998; 98US-0088375P.
 PR 05-JUN-1998; 98US-0088376P.
 PR 05-JUN-1998; 98US-0088377P.
 PR 05-JUN-1998; 98US-0088378P.
 PR 05-JUN-1998; 98US-0088379P.
 PR 05-JUN-1998; 98US-0088380P.
 PR 05-JUN-1998; 98US-0088381P.
 PR 05-JUN-1998; 98US-0088382P.
 PR 05-JUN-1998; 98US-0088383P.
 PR 05-JUN-1998; 98US-0088384P.
 PR 05-JUN-1998; 98US-0088385P.
 PR 05-JUN-1998; 98US-0088386P.
 PR 05-JUN-1998; 98US-0088387P.
 PR 05-JUN-1998; 98US-0088388P.
 PR 05-JUN-1998; 98US-0088389P.
 PR 05-JUN-1998; 98US-0088390P.
 PR 05-JUN-1998; 98US-0088391P.
 PR 05-JUN-1998; 98US-0088392P.
 PR 05-JUN-1998; 98US-0088393P.
 PR 05-JUN-1998; 98US-0088394P.
 PR 05-JUN-1998; 98US-0088395P.
 PR 05-JUN-1998; 98US-0088396P.
 PR 05-JUN-1998; 98US-0088397P.
 PR 05-JUN-1998; 98US-0088398P.
 PR 05-JUN-1998; 98US-0088399P.
 PR 05-JUN-1998; 98US-0088400P.
 PR 05-JUN-1998; 98US-0088401P.
 PR 05-JUN-1998; 98US-0088402P.
 PR 05-JUN-1998; 98US-0088403P.
 PR 05-JUN-1998; 98US-0088404P.
 PR 05-JUN-1998; 98US-0088405P.
 PR 05-JUN-1998; 98US-0088406P.
 PR 05-JUN-1998; 98US-0088407P.
 PR 05-JUN-1998; 98US-0088408P.
 PR 05-JUN-1998; 98US-0088409P.
 PR 05-JUN-1998; 98US-0088410P.
 PR 05-JUN-1998; 98US-0088411P.
 PR 05-JUN-1998; 98US-0088412P.
 PR 05-JUN-1998; 98US-0088413P.
 PR 05-JUN-1998; 98US-0088414P.
 PR 05-JUN-1998; 98US-0088415P.
 PR 05-JUN-1998; 98US-0088416P.
 PR 05-JUN-1998; 98US-0088417P.
 PR 05-JUN-1998; 98US-0088418P.
 PR 05-JUN-1998; 98US-0088419P.
 PR 05-JUN-1998; 98US-0088420P.
 PR 05-JUN-1998; 98US-0088421P.
 PR 05-JUN-1998; 98US-0088422P.
 PR 05-JUN-1998; 98US-0088423P.
 PR 05-JUN-1998; 98US-0088424P.
 PR 05-JUN-1998; 98US-0088425P.
 PR 05-JUN-1998; 98US-0088426P.
 PR 05-JUN-1998; 98US-0088427P.
 PR 05-JUN-1998; 98US-0088428P.
 PR 05-JUN-1998; 98US-0088429P.
 PR 05-JUN-1998; 98US-0088430P.
 PR 05-JUN-1998; 98US-0088431P.
 PR 05-JUN-1998; 98US-0088432P.
 PR 05-JUN-1998; 98US-0088433P.
 PR 05-JUN-1998; 98US-0088434P.
 PR 05-JUN-1998; 98US-0088435P.
 PR 05-JUN-1998; 98US-0088436P.
 PR 05-JUN-1998; 98US-0088437P.
 PR 05-JUN-1998; 98US-0088438P.
 PR 05-JUN-1998; 98US-0088439P.
 PR 05-JUN-1998; 98US-0088440P.
 PR 05-JUN-1998; 98US-0088441P.
 PR 05-JUN-1998; 98US-0088442P.
 PR 05-JUN-1998; 98US-0088443P.
 PR 05-JUN-1998; 98US-0088444P.

XX 03-DEC-1997; 97US-0067411P.
 PR 11-DEC-1997; 97US-0069378P.
 PR 11-DEC-1997; 97US-0069334P.
 PR 11-DEC-1997; 97US-0069335P.
 PR 12-DEC-1997; 97US-0069425P.
 PR 16-DEC-1997; 97US-0069694P.
 PR 16-DEC-1997; 97US-0069695P.
 PR 16-DEC-1997; 97US-0069702P.
 PR 17-DEC-1997; 97US-0069870P.
 PR 17-DEC-1997; 97US-0069873P.
 PR 18-DEC-1997; 97US-0068017P.
 PR 05-JAN-1998; 98US-007040P.
 PR 09-FEB-1998; 98US-0074086P.
 PR 25-FEB-1998; 98US-0075945P.
 PR 16-SEP-1998; 98WO-US019330.
 PR 16-SEP-1998; 98WO-US021108.
 PR 16-DEC-1998; 98US-0112850P.
 PR 22-DEC-1998; 98US-0113296P.
 PR 02-JUN-1999; 99WO-US012252.
 PR 28-JUL-1999; 99US-0146222P.
 PR 15-SEP-1999; 99WO-US021090.
 PR 30-NOV-1999; 99WO-US023313.
 PR 01-DEC-1999; 99WO-US023301.
 PR 16-DEC-1999; 99WO-US030095.
 PR 11-FEB-2000; 2000WO-US031565.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 02-MAR-2000; 2000WO-US003841.
 PR 30-MAR-2000; 2000WO-US004349.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 01-DEC-2000; 2000WO-US022678.
 PR 28-FEB-2001; 2001WO-US005520.
 PR 25-MAY-2001; 2001US-00860028.
 XX PA (GETH) GENENTECH INC.
 XX PT Baker KP, Bottstein D, Baton DL, Ferrara N, Filvaroff E,
 PI Gerritsen ME, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL,
 PI Hillian KJ, Kijaviv IJ, Napier MA, Roy MA, Tumas D, Wood WI;
 XX DR NPI; 2003-311003/30.
 XX DR N-PSDB; A0X96832.

CC AIDS' cancer and diabetic complications. The present sequence represents a PRO protein
 XX Sequence 431 AA;

Query Match 100.0%; Score 2211; DB 6; Length 431;
 Best Local Similarity 100.0%; Pred. No. 3, 6e-173;
 Matches 431; Conservativeness 0; Mismatches 0; Indels 0; Gaps 0;
 Query 1 MFFGGERGSLRTYLVICFLTIRLSAQNCLRSKLSLDVVIDQISSLSKGIRGNGEPVYSTQ 60
 Db 1 MFFGGERGSLRTYLVICFLTIRLSAQNCLRSKLSLDVVIDQISSLSKGIRGNGEPVYSTQ 60
 Db 61 EDCINSCSCTNISDACKMLIFDTRKTAQRCNPYCYLFFCPNEBACPLPAKGLMSYRII 120
 Db 61 EDCINSCSCTNISDACKMLIFDTRKTAQRCNPYCYLFFCPNEBACPLPAKGLMSYRII 120
 Query 121 TDFPSLTRNIPSLPQELFQEDSLILHGQFSQAVTPLAHHHTDYSKPTDISWRTLSOKFGSSD 180
 Db 121 TDFPSLTRNIPSLPQELFQEDSLILHGQFSQAVTPLAHHHTDYSKPTDISWRTLSOKFGSSD 180
 Query 181 HLEKLFKMDRASQALQAYKEKGHQSQFSSDQEIAHLAPENVALPATAVASPHHTSA 240
 Db 181 HLEKLFKMDRASQALQAYKEKGHQSQFSSDQEIAHLAPENVALPATAVASPHHTSA 240
 Query 241 TPKPATLILPTNAVTPGTSQPOLATAPVTTTSPQPTLISVPTFRAATLQAMTT 300
 Db 241 TPKPATLILPTNAVTPGTSQPOLATAPVTTTSPQPTLISVPTFRAATLQAMTT 300
 Query 301 AVLTTFFQAPTDKSKLETTIPFTESNLNTANTGNVNTPTALMSMSVNESSTMKTAASWEGR 360
 Db 301 AVLTTFFQAPTDKSKLETTIPFTESNLNTANTGNVNTPTALMSMSVNESSTMKTAASWEGR 360
 Query 361 EASPPSSQDSVPENQYGLPKEKMLLGSILFGVILFLGVILVLRGRISLESRRRYSRL 420
 Db 361 EASPPSSQDSVPENQYGLPKEKMLLGSILFGVILFLGVILVLRGRISLESRRRYSRL 420
 Query 421 DYLINGIVVDI 431
 Db 421 DYLINGIVVDI 431
 431 AA

Search completed: April 28, 2004, 12:57:51
 Job time : 63 secs

PT New transmembrane polypeptides and polynucleotides useful for chromosome identification, tissue typing, gene therapy, in chromosome and gene mapping, or as molecular weight markers.
 XX PT
 XX PS Claim 12; Fig 32; 172pp; English.

The invention relates to an isolated nucleic acid encoding a secreted/transmembrane polypeptide (designated as PRO proteins). 15 PRO polypeptides and their encoding polynucleotides are disclosed. Also included are a vector comprising the PRO nucleic acid, a host cell comprising the vector, a process for producing a PRO polypeptide (by culturing the host cell under conditions for the expression of the PRO polypeptide, and recovering the PRO polypeptide from the cell culture an isolated polypeptide having at least 80% amino acid sequence identity to the PRO polypeptides, a chimaeric molecule comprising PRO fused to a heterologous amino acid sequence and an antibody which specifically binds to PRO. The PRO nucleotide sequences are useful as hybridization probes, in chromosome and gene mapping, in generating sense and antisense RNA or DNA, in generating transgenic or knock-out animals which can be used in the development and screening of therapeutically useful reagents, and in gene therapy. The polypeptides may be used as molecular weight markers for protein electrophoresis purposes. The PRO polypeptides and nucleic acids may also be used for chromosome identification, and tissue typing. PRO241 (identified as Chordin) is a candidate gene for Cornelia de Lange syndrome. Other PRO proteins are variously implicated in immune disorders, inflammatory disease, organ failure, atherosclerosis, cardiac injury, infertility, birth defects, premature aging, cardiac injury,

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - Protein search, using sw model

Run on: April 28, 2004, 12:56:43 ; Search time 23 Seconds
(without alignments)

967.426 Million cell updates/sec

Title: US-10-677-471-83
Perfect score: 2211
Sequence: 1 MFFGGEGLTYLVIICFLT.....LRRKRYSLRDYLINGIVVDI 431

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched:

389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents AA:*

- 1: /cgn2_6/ptodata/2/iaa/5A_COMBO.pep:*
- 2: /cgn2_6/ptodata/2/iaa/5B_COMBO.pep:*
- 3: /cgn2_6/ptodata/2/iaa/6A_COMBO.pep:*
- 4: /cgn2_6/ptodata/2/iaa/6B_COMBO.pep:*
- 5: /cgn2_6/ptodata/2/iaa/PCITS_COMBO.pep:*
- 6: /cgn2_6/ptodata/2/iaa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2211	100.0	431	4	US-09-866-028-83
2	183	8.3	266	4	US-09-866-028-83
3	145.5	6.6	629	4	US-09-241-5181B-6
4	145.5	6.6	629	4	US-08-245-428-6
5	145.5	6.6	629	5	PCT-US91-0721-6
6	129	5.8	175	3	US-08-700-651-12
7	129	5.8	175	3	US-08-928-361B-17
8	129	5.8	175	4	US-09-588-918A-17
9	128	5.8	249	3	US-08-700-651-15
10	128	5.8	249	3	US-08-928-361B-20
11	127.5	5.8	1601	4	US-09-588-918A-20
12	127.5	5.7	288	4	US-09-216-393B-40
13	127	5.7	288	4	US-09-216-393B-341
14	127	5.7	357	1	US-08-078-631A-8
15	127	5.7	357	4	US-08-471-9701B-8
16	126.5	5.7	1837	3	US-08-928-361B-5
17	126.5	5.7	1837	4	US-09-588-918A-5
18	126	5.7	878	4	US-09-536-706B-2
19	125.5	5.7	1721	3	US-08-700-651-5
20	125.5	5.7	1721	3	US-08-928-361B-6
21	125.5	5.7	1721	3	US-09-588-918A-6
22	125.5	5.7	2137	4	US-09-114-01C-4463
23	124.5	5.6	451	1	US-08-287-01A-2
24	124.5	5.6	451	5	PCT-US91-09141-2
25	123.5	5.6	806	1	US-08-700-651-11
26	123	5.6	US-08-928-361B-18		

ALIGNMENTS

RESULT 1
US-09-866-028-83
; Sequence 83, Application US/09866028
; Patent No. 6542360
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Botskeiene, Baton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P2548PC1
; CURRENT FILING DATE: 2001-05-25
; CURRENT APPLICATION NUMBER: US/09/ 866, 028
; PRIOR APPLICATION data removed - consult PALM or file wrapper
; SEQ ID NO: 83
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Homo Sapien
; US-09-866-028-83

Query Match 100.0%; Score 2211; DB 4; Length 431; Best Local Similarity 100.0%; Pred. No. 3.5e-202; Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFFGGEGLTYLVIICFLT.....LRRKRYSLRDYLINGIVVDI 431
Db 1 MFFGGEGLTYLVIICFLT.....LRRKRYSLRDYLINGIVVDI 431
QY 121 TDPPLSLRNLSSQELPQEDSLHQSQAVPLAHHHTDKSKPTDLSQFQSSD 180
Db 121 TDPPLSLRNLSSQELPQEDSLHQSQAVPLAHHHTDKSKPTDLSQFQSSD 180

RESULT 2

US-09-489-847-332

; Sequence 332, Application US/09489847

PATENT NO. 6476195

GENERAL INFORMATION:

APPLICANT: Rosen et al

TITLE OF INVENTION: 98 Human Secreted Proteins

FILE REFERENCE: P203111

CURRENT APPLICATION NUMBER: US/09/489, 847

CURRENT FILING DATE: 2000-01-24

EARLIER APPLICATION NUMBER: PCT/US99/17130

EARLIER FILING DATE: 1999-07-29

EARLIER APPLICATION NUMBER: 60/094, 657

EARLIER APPLICATION NUMBER: 60/095, 486

EARLIER FILING DATE: 1998-08-05

EARLIER APPLICATION NUMBER: 60/096, 319

EARLIER FILING DATE: 1998-08-12

EARLIER APPLICATION NUMBER: 60/095, 454

EARLIER FILING DATE: 1998-08-06

NUMBER OF SEQ ID NOS: 376

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 332

LENGTH: 266

TYPE: PRT

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: SITE

LOCATION: (197)

OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

FEATURE:

NAME/KEY: SITE

LOCATION: (174)

OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

FEATURE:

NAME/KEY: SITE

LOCATION: (195)

OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

FEATURE:

NAME/KEY: SITE

LOCATION: (199)

OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

FEATURE:

NAME/KEY: SITE

LOCATION: (206)

OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

Query Match Score: 8.3%; Score: 183; DB: 4; Length: 266; Best Local Similarity: 27.2%; Pred. No. 3.8e-09; US-09-489-847-332

RESULT 3

US-09-241-581B-6

; Sequence 6, Application US/09241581B

PATENT NO. 6350839

GENERAL INFORMATION:

APPLICANT: Massachusetts Institute of Technology

TITLE OF INVENTION: Class B1 and C1 Scavenger Receptors

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSE: Patrea L. Pabst

STREET: 2800 One Atlantic Center

CITY: Atlanta

STATE: Georgia

COUNTRY: USA

ZIP: 30303-3450

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/241.581B

FILING DATE: 02-Feb-1999

CLASSIFICATION: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Pabst, Patrea L.

REGISTRATION NUMBER: 31.284

REFERENCE/DOCKET NUMBER: MIT6620

TELECOMMUNICATION INFORMATION:

TELEPHONE: (404) 873-8794

TELEFAX: (404) 873-8795

TELEFAX: (404) 873-8795

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 629 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

FRAGMENT TYPE: internal

FEATURE:

NAME/KEY: misc. feature

LOCATION: 1..629

OTHER INFORMATION: /Function = "Amino acid sequence for the Drosophila Melanogaster Scavenger Receptor Class C1."

FEATURE:

NAME/KEY: Modified-site

LOCATION: 30..353

OTHER INFORMATION: /note= "Positions 30-32, 90-92,

129-131, 180-182, 253-255 and 351-353 represent potential N-glycosylation sites."

FEATURE: NAME/KEY: Modified-site LOCATION: 1..20 OTHER INFORMATION: /note= "Amino acids 1-20 represent a putative signal sequence."

FEATURE: NAME/KEY: Modified-site LOCATION: 21..74 OTHER INFORMATION: /note= "Amino acids 21-74 represent complement control protein domain number 1."

FEATURE: NAME/KEY: Modified-site LOCATION: 75..127 OTHER INFORMATION: /note= "Amino acids 75-127 represent complement control protein domain number 2."

FEATURE: NAME/KEY: Modified-site LOCATION: 128..312 OTHER INFORMATION: /note= "Amino acids 128-312 represent an MAM domain."

FEATURE: NAME/KEY: Disulfide-bond LOCATION: 22..381 OTHER INFORMATION: /note= "The cysteines at positions 22, 45, 59, 72, 77, 99, 113, 125, 136, 144, 216, 217, 254, 310, 339, 343, 361, 363, 367, 373, 374 and 381 represent potential disulfide linkages."

FEATURE: NAME/KEY: Modified-site LOCATION: 338..381 OTHER INFORMATION: /note= "Amino acids 338-381 represent a somatomedin B domain."

FEATURE: NAME/KEY: Modified-site LOCATION: 387..514 OTHER INFORMATION: /note= "Amino acids 387-514 represent a mucin-like potential O-linked glycosylation region."

FEATURE: NAME/KEY: Domain LOCATION: 544..564 OTHER INFORMATION: /note= "Amino acids 544-565 represent a putative TM domain."

FEATURE: NAME/KEY: Domain LOCATION: 565..629 OTHER INFORMATION: /note= "Amino acids 565-629 represent a putative cytoplasmic domain."

FEATURE: NAME/KEY: Modified-site LOCATION: 576..602 OTHER INFORMATION: /note= "Amino acids 576-579 and 590-602 represent casein kinase II sites."

FEATURE: NAME/KEY: Modified-site LOCATION: 578..592 OTHER INFORMATION: /note= "Amino acids 578-580 and 590-592 represent protein kinase C sites."

FEATURE: NAME/KEY: Modified-site LOCATION: 596..599 OTHER INFORMATION: /note= "Amino acids 596-599 represent a CAM protein kinase site."

SEQUENCE DESCRIPTION: SEQ ID NO: 6:

RESULT 4
US-08-265-428-6
; Sequence 6, Application US/08265428
; Pattern No. 6422289

GENERAL INFORMATION:
APPLICANT: Kriger, Monty
TITLE OF INVENTION: Class BI Scavenger Receptors
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Patrea L. Rabst
STREET: 1100 Peachtree Street, Suite 2800
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309-4330

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/265,428
FILING DATE: 2002-02-26
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Pabst, Patra L.
REGISTRATION NUMBER: 31,284
REFERENCE DOCKET NUMBER: MIT6620
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404) 815-6508
TELEFAX: (404) 815-6555

INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 629 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
FRAGMENT TYPE: internal

FEATURE:
NAME/KEY: misc. feature
LOCATION: 1..629
OTHER INFORMATION: /Function = "Amino acid sequence for the Drosophila Melanogaster"

FEATURE: NAME/KEY: Modified-site
LOCATION: 30..353
OTHER INFORMATION: /note= "positions 30-32, 90-92, 95-97, 351-353 represent potential N-glycosylation sites."

FEATURE: NAME/KEY: Modified-site
LOCATION: 1..629
OTHER INFORMATION: /Function = "Amino acid sequence for the Drosophila Melanogaster"

FEATURE: NAME/KEY: Modified-site

LOCATION: 1-20
 OTHER INFORMATION: /note= "Amino acids 1-20 represent
 OTHER INFORMATION: a putative signal sequence."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 21-74
 OTHER INFORMATION: /note= "Amino acids 21-74 represent
 OTHER INFORMATION: complement control protein domain number 1."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 75-127
 OTHER INFORMATION: /note= "Amino acids 75-127
 OTHER INFORMATION: represent complement control protein domain number
 OTHER INFORMATION: 2."

FEATURE: NAME/KEY: Disulfide-bond
 LOCATION: 128-312
 OTHER INFORMATION: /note= "Amino acids 128-312
 OTHER INFORMATION: represent an MAM domain."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 22-381
 OTHER INFORMATION: /note= "The cysteines at positions
 OTHER INFORMATION: 22, 45, 59, 72, 77, 99, 113, 125, 136, 144, 216,
 OTHER INFORMATION: 217, 254, 310, 319, 343, 361, 363, 367, 373, 374 and 381
 OTHER INFORMATION: represent potential disulfide linkages."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 328-381
 OTHER INFORMATION: /note= "Amino acids 328-381
 OTHER INFORMATION: represent a somatomedin B domain."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 387-554
 OTHER INFORMATION: /note= "Amino acids 387-514
 OTHER INFORMATION: represent a mucin-like potential O-linked
 OTHER INFORMATION: glycosylation region."

FEATURE: NAME/KEY: Domain
 LOCATION: 544-554
 OTHER INFORMATION: /note= "Amino acids 544-555
 OTHER INFORMATION: represent a putative TM domain."

FEATURE: NAME/KEY: Domain
 LOCATION: 565-629
 OTHER INFORMATION: /note= "Amino acids 565-629
 OTHER INFORMATION: represent a putative cytoplasmic domain."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 576-602
 OTHER INFORMATION: /note= "Amino acids 576-579 and
 OTHER INFORMATION: 599-602 represent casein kinase II sites."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 578-592
 OTHER INFORMATION: /note= "Amino acids 578-580 and
 OTHER INFORMATION: 590-592 represent protein kinase C sites."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 596-599
 OTHER INFORMATION: /note= "Amino acids 596-599
 OTHER INFORMATION: represent a CAMP protein kinase site."

Query Match Best Local Similarity 6.6%; Score 145.5; DB 4; Length 629;
 Matches 48; Conservative 22.9%; Pred. No. 5.7e-05; Gaps 5;

QY 213 QEIIAHILPENNSALPATVAVASPT-----TSATPPATILPTMSVTPSGTSQ 261
 Db 383 KELITTEDDSSSLPPVTSSTTRKSTTTTITTTKRPITTTKATT 442

QY 262 QQLATTAPPVTVTSQPTTLISTVTRAATLQAMATTAVLTTFQAPTSKGSLETIP 321

RESULT 5
 PCT-US95-07721-6
 Sequence 6, Application PC/TUS9507721
 GENERAL INFORMATION:
 APPLICANT: Massachusetts Institute of Technology Receptors
 TITLE OF INVENTION: Class BI and CI Scavenger Receptors
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Patrea L. Pabst
 STREET: 2800 One Atlantic Center
 CITY: Atlanta
 STATE: Georgia
 COUNTRY: USA
 ZIP: 30309-3450
 COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/07721
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Pabst, Patrea L.
 NAME/KEY: Pabst, Patrea L.
 REGISTRATION NUMBER: 31-284
 REFERENCE/DOCKET NUMBER: MIT6620
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (404) 873-8794
 TELEFAX: (404) 873-8795
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 629 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 FRAGMENT TYPE: internal
 FEATURE:
 NAME/KEY: misc. feature
 LOCATION: 1-629
 OTHER INFORMATION: /Function = "Amino acid sequence for the
 OTHER INFORMATION: Drosophila Melanogaster Scavenger Receptor
 OTHER INFORMATION: Class CI."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 30-353
 OTHER INFORMATION: /note= "Positions 30-32, 90-92,
 OTHER INFORMATION: 129-131, 180-182, 253-255 and 351-353
 OTHER INFORMATION: represent potential N-glycosylation
 OTHER INFORMATION: sites."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 1-20
 OTHER INFORMATION: /note= "Amino acids 1-20 represent
 OTHER INFORMATION: a putative signal sequence."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 21-74

OTHER INFORMATION: /note= "Amino acids 21-74 represent

OTHER INFORMATION: complement control protein domain
 OTHER INFORMATION: number 1."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 75..127
 OTHER INFORMATION: /note= "Amino acids 75-127 represent complement control protein
 OTHER INFORMATION: domain number 2."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 128..312
 OTHER INFORMATION: /note= "Amino acids 128-312 represent an MAM domain."

FEATURE: NAME/KEY: Disulfide-bond
 LOCATION: 22..381
 OTHER INFORMATION: /note= "The cysteines at positions 22, 45, 59, 72, 77, 99, 113, 125, 136, 144, 216, 217, 254, 310, 339, 343, 361, 363, 367, 373, 374 and 381 represent potential disulfide linkages."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 338..381
 OTHER INFORMATION: /note= "Amino acids 338-381 represent a somatomedin B domain."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 387..514
 OTHER INFORMATION: /note= "Amino acids 387-514 represent a mucin-like potential O-linked glycosylation region."

FEATURE: NAME/KEY: Domain
 LOCATION: 544..554
 OTHER INFORMATION: /note= "Amino acids 544-555 represent a putative TM domain."

FEATURE: NAME/KEY: Domain
 LOCATION: 565..629
 OTHER INFORMATION: /note= "Amino acids 565-629 represent a putative cytoplasmic domain."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 576..602
 OTHER INFORMATION: /note= "Amino acids 576-579 and 599-602 represent casein kinase II other information: sites."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 578..592
 OTHER INFORMATION: /note= "Amino acids 578-580 and 590-592 represent protein kinase C other information: sites."

FEATURE: NAME/KEY: Modified-site
 LOCATION: 596..599
 OTHER INFORMATION: /note= "Amino acids 596-599 represent a CAMP protein kinase site."

PCT-US95-0721-6

Query Match 5..8%; Score 129; DB 3; Length 175;
 Best Local Similarity 27.3%; Pred. No. 00027; Matches 35; Conservative 15; Mismatches 74; Indels 4; Gaps 1; Matches

Qy 226 LPATVAVASPHTSATFPKATLPINAVPSGTSQPLATAPPVITVSQPPHTL 285
 Db :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
 7 IPYTKCUGVKHHTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 62

Qy 286 VFTRAATLQAMATTAVLTTTFOAPDPSKESLETPFPTESNLTLNITGNVNPTALMSN 345
 Db 63 TTTTTTTTTTTTTTTTTTTTTTTKKPITTTTTTTTTTTTTTTTTTTTTTT 122
 :|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:
 Qy 346 VESSTMK 353
 Db 123 TTTTTTK 130

RESULT 7
 US-08-928-361B-17
 ; Sequence 17, Application US/08928361B
 ; Patent No. 6071518
 ; GENERAL INFORMATION:
 ; APPLICANT: Petersen, Carolyn
 ; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS, THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
 ; TITLE OF INVENTION: SPECIES INFECTIONS
 ; NUMBER OF SEQUENCES: 30
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: PETERS, VERNY, JONES & BIKSA
 ; STREET: 385 Sherman Avenue, Suite 6
 ; CITY: Palo Alto
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94301-1840
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk

Query Match 6.6%; Score 145.5; DB 5; Length 629;
 Best Local Similarity 22.9%; Pred. No. 57e-05;
 Matches 48; Conservative 30; Mismatches 79; Indels 53; Gaps 5;

Qy 213 QETAHLLPENPSALPATVAVASPHT-----TSATPKPATLPTNANASVTPSGTQ 261
 Db 383 KELLTTBDDISLPPVTISISTRKSTTTTSTTSTTTPKPTTTTAKTT 442
 Qy 262 PQLATTAPPVTVTSQPTTLISTVFRATAATLQAMATTAVLTTTQAPTSKGSLETIP 321
 Db 443 KRUTTTKRPPTVSTTPKPTTSTTPKSTTSTTSTTPTTTTNTVFTK----- 495

COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-POS/Ma-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/928,361B
 FILING DATE: 12-SEP-1997
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/026,062
 FILING DATE: 13-SEP-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Verney, Hana
 REGISTRATION NUMBER: 30,518
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650-324-1677
 INFORMATION FOR SEQ ID NO: 17:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 175 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-928-361B-17

RESULT 8
 US-09-588-995A-17
 ; Sequence 17, Application US/09588995A
 ; Patent No. 6514697
 ; GENERAL INFORMATION:
 ; APPLICANT: PETERSEN, CAROLYN
 ; APPLICANT: BARNES, DEBRA A.
 ; APPLICANT: GUT, JIRI
 ; TITLE OF INVENTION: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
 ; TITLE OF INVENTION: INFECTIONS
 ; FILE REFERENCE: 480.19-4(RV)
 ; CURRENT APPLICATION NUMBER: US/08/700,651B
 ; CURRENT FILING DATE: 1997-08-14
 ; EARLIER APPLICATION NUMBER: 08/415,751
 ; EARLIER FILING DATE: 1995-04-03
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 15
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Cryptosporidium parvum
 ; FEATURE:
 ; OTHER INFORMATION: mutant/variant of SEQ ID NO: 5
 ; US-08-700-651-15

Query Match 5.8%; Score 129; DB 3; Length 175;
 Best Local Similarity 27.3%; Pred. No. 0.00027; Gaps 1;
 Matches 35; Conservative 15; Mismatches 74; Indels 4; Gaps 1;

Qy 226 LPATVAVASPHTSATPKPATLPTNAVSPGTSQPLATAPPVTVSQPPTL 285
 Db 7 IPYTKCUGVKGHTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 62
 Qy 286 VFTRAATLQMAVAVLTTFOAPTDKSQLETPFTEISNLNTGNYNPTALMSN 345
 Db 63 TTT 122

RESULT 9
 US-08-700-651-15
 ; Sequence 15, Application US/08700651B
 ; Patent No. 601582
 ; GENERAL INFORMATION:
 ; APPLICANT: PETERSEN, CAROLYN
 ; APPLICANT: LEECH, JAMES
 ; APPLICANT: NELSON, RICHARD, C.
 ; APPLICANT: GUT, JIRI
 ; TITLE OF INVENTION: VACCINES, ANTIBODIES, PROTEINS, GLYCOPROTEINS, DNAs AND RNAs
 ; TITLE OF INVENTION: FOR PROPHYLAXIS AND TREATMENT OF Cryptosporidium parvum
 ; TITLE OF INVENTION: INFECTIONS
 ; FILE REFERENCE: 480.19-4(RV)
 ; CURRENT APPLICATION NUMBER: US/08/700,651B
 ; CURRENT FILING DATE: 1997-08-14
 ; EARLIER APPLICATION NUMBER: 08/415,751
 ; EARLIER FILING DATE: 1995-04-03
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 15
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Cryptosporidium parvum
 ; FEATURE:
 ; OTHER INFORMATION: mutant/variant of SEQ ID NO: 5
 ; US-08-700-651-15

Query Match 5.8%; Score 128; DB 3; Length 249;
 Best Local Similarity 26.0%; Pred. No. 0.00059; Gaps 0;
 Matches 34; Conservative 15; Mismatches 82; Indels 0; Gaps 0;

Qy 226 LPATVAVASPHTSATPKPATLPTNAVSPGTSQPLATAPPVTVSQPPTL 285
 Db 7 IPYTKCUGVKGHTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT 66
 Qy 286 VFTRAATLQMAVAVLTTFOAPTDKSQLETPFTEISNLNTGNYNPTALMSN 345
 Db 67 TTT 126

RESULT 10
 US-08-928-361B-20
 ; Sequence 20, Application US/08928361B
 ; Patent No. 6071518
 ; GENERAL INFORMATION:
 ; APPLICANT: Petersen, Carolyn
 ; TITLE OF INVENTION: PEPTIDES, POLYPEPTIDES, GLYCOPROTEINS,
 ; TITLE OF INVENTION: THEIR FUNCTIONAL MUTANTS, VARIANTS, ANALOGS AND FRAGMENTS
 ; TITLE OF INVENTION: FOR TREATMENT AND DETECTION/DIAGNOSIS OF CRYPTOSPORIDIUM
 ; TITLE OF INVENTION: SPECIES INFECTIONS
 ; NUMBER OF SEQUENCES: 30

NUMBER OF SEQ ID NOS: 115
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 17
 LENGTH: 175
 TYPE: PRT
 ORGANISM: Cryptosporidium parvum
 US-09-588-995A-17

CORRESPONDENCE ADDRESS:
 ADDRESSE: PETERS, VERNY, JONES & BISKA
 STREET: 385 Sherman Avenue, Suite 6
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94306-1840
 COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/928,361B
 FILING DATE: 12-SEP-1997
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 60/026,062
 FILING DATE: 13-SEP-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: VERNY, Hana
 REGISTRATION NUMBER: 30,518
 REFERENCE NUMBER: 480.76.1 (HV)
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650-324-1677
 TELEFAX: 650-324-1678
 INFORMATION FOR SEQ ID NO: 20:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 249 amino acids
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 ; US-08-28-361B-20

Query Match 5.8%; Score 128; DB 3; Length 249;
 Best Local Similarity 26.0%; Pred. No. 0.00059;
 Matches 34; Conservative 15; Mismatches 82; Indels 0; Gaps 0;
 ; Sequence 40, Application US/09345473B
 ; Patent No. 6558903

Qy 226 LPATVAVASPHTSATPKPATLPTNASYTSGTSQPLATTAPPVTVSQPPTLIST 285
 Db 7 IPYTKCVCVKHTT 66

Qy 286 VPTRAATLQAMATTAVLTTTQAPTDKSQSLETTPTEISNLTNTGNVWNPALMSN 345
 Db 67 TTT 126

Qy 346 VESSTMMKTAS 356
 Db 127 TTTTTTTTTT 137

RESULT 12
 US-09-345-473E-40
 ; Sequence 40, Application US/09345473B
 ; Patent No. 6558903

Qy 286 VPTRAATLQAMATTAVLTTTQAPTDKSQSLETTPTEISNLTNTGNVWNPALMSN 345
 Db 67 TTT 126

Qy 346 VESSTMMKTAS 356
 Db 127 TTTTTTTTTT 137

RESULT 12
 US-09-345-473E-40
 ; Sequence 40, Application US/09345473B
 ; Patent No. 6558903

Qy 286 VPTRAATLQAMATTAVLTTTQAPTDKSQSLETTPTEISNLTNTGNVWNPALMSN 345
 Db 67 TTT 126

Qy 346 VESSTMMKTAS 356
 Db 127 TTTTTTTTTT 137

RESULT 11
 US-09-588-995A-20

Sequence 20, Application US/09588995A
 ; Patent No. 6514697

GENERAL INFORMATION:
 APPLICANT: PETERSEN, CAROLYN
 APPLICANT: BARNES, DEBRA A.
 APPLICANT: NELSON, RICHARD C.
 APPLICANT: GUT, JIRI

APPLICANT: METHODS FOR DETECTION OF CRYPTOSPORIDIUM SPECIES AND
 TITLE OF INVENTION: ISOLATES AND FOR DIAGNOSIS OF CRYPTOSPORIDIUM
 FILE REFERENCE: 480.19-5

CURRENT APPLICATION NUMBER: US/09/588,995A
 CURRENT FILING DATE: 2000-06-05
 PRIOR APPLICATION NUMBER: 08/827,171
 PRIOR FILING DATE: 1997-03-27

PRIOR APPLICATION NUMBER: 08/928,361
 PRIOR FILING DATE: 1997-09-12

PRIOR APPLICATION NUMBER: 08/700,651
 PRIOR FILING DATE: 1996-08-14

PRIOR APPLICATION NUMBER: 09/415,751
 PRIOR FILING DATE: 1995-04-03
 NUMBER OF SEQ ID NOS: 115
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 20
 LENGTH: 249
 TYPE: PRT
 ORGANISM: Cryptosporidium parvum
 ; US-09-588-995A-20

Query Match 5.8%; Score 128; DB 4; Length 249;
 Best Local Similarity 26.0%; Pred. No. 0.00059;
 Matches 34; Conservative 15; Mismatches 82; Indels 0; Gaps 0;
 ; Sequence 40, Application US/09345473B
 ; Patent No. 6558903

Qy 226 LPATVAVASPHTSATPKPATLPTNASYTSGTSQPLATTAPPVTVSQPPTLIST 285
 Db 7 IPYTKCVCVKHTT 66

Qy 286 VPTRAATLQAMATTAVLTTTQAPTDKSQSLETTPTEISNLTNTGNVWNPALMSN 345
 Db 67 TTT 126

Qy 346 VESSTMMKTAS 356
 Db 127 TTTTTTTTTT 137

Query Match 5.8%; Score 127.5; DB 4; Length 1601;
 Best Local Similarity 21.6%; Pred. No. 0.013; .
 Matches 83; Conservative 59; Mismatches 132; Indels 111; Gaps 20;
 ; Sequence 40, Application US/09345473B
 ; Patent No. 6558903

Qy 59 TQEDCINSCSTKNTSGDK-----ACNIMIFDTKTRARQPNCYLFFCPNEEACPLKPA 111
 Db 358 TPEDLIGIREVIEKNDLNDLNVEIQMQLRVYDKEKKRQ---YRF-----KEN 403

Qy 112 KGL-MSYRITDFFS--LTERNLPSEQELPQDSLJLQGFSQAVTPLAHHRHIDYSKPTDISH 168
 Db 404 EGLOFAFDIENDSPDEVQOMIEQHQIPDED-----TRMITKLIKDKVDAFR---- 450

Qy 169 RDTLSQKFGSDHLEKFKMDEASQQLAYKEKGHSQSS---QFSSDQBLAHILPENVS 224
 Db 451 RD-----RDH--RLLEKRAKEEREREREEBKEELRLRAKEKEKERERER 500

Qy 225 ALPATVAVASPHTSATPKAT-----LPTNASVTPSGTSQPLATT 267
 Db 501 KKAACAAAANPNTTRIPPIPATPHSSAQQPPIPPLSTQS-AQQPSVPTMIA 559

Qy 268 -APPVTVTNSQ-----PTTLLSTVPTRAATLQAMATT----- 302
 Db 560 NIPAMSPSTAQQPQVPLSPISAAPVPTMWH-VPKPSEIPVQNVATTAAVAAANNVPPSP 618

Qy 303 --LTTTQAPTDKSQSLERIPFRIISNLTNT-GNVWNP-ALMSMNTESSTM--- 351
 Db 619 APFKEDIOPTLAONTPRTISTDASGIVINTPASINSPPSASATDIASTTPVTPAP 678

QY	305	-TTFQAPTSKGSLETTIPFBISJNJTINTGVNYPALMSNVESSTMNKATASWEGREAS	363
Db	205	ATTHEEPTTS--IETTSVLTETVTTSRVLPSTAKRSRKPST-SRTAERTEPKSTALPSS	261
Qy	364	PGSSSQGSPENQG	378
Db	262	PTTLLPTEAQPVERG	276

Search completed: April 28, 2004, 13:00:26
Job time : 25 secs

THIS PAGE BLANK (USPTO)

Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 28, 2004, 12:57:58 : Search time 48 Seconds (without alignments)

Scoring table: BL0SUM62 Gap 10.0 , Gapext 0.5

Searched: 1138120 seqs, 277189581 residues

Total number of hits satisfying chosen parameters: 1138120

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database : Published Applications AA: *

1: /cgn2_6/_ptodata/1/_pubpaa/_US07_PUBCOMB.pep: *
 2: /cgn2_6/_ptodata/1/_pubpaa/_PCT_NEW_PUB.pep: *
 3: /cgn2_6/_ptodata/1/_pubpaa/_US06_PUBCOMB.pep: *
 4: /cgn2_6/_ptodata/1/_pubpaa/_US07_PUBCOMB.pep: *
 5: /cgn2_6/_ptodata/1/_pubpaa/_PCTUS_PUBCOMB.pep: *
 6: /cgn2_6/_ptodata/1/_pubpaa/_PCTUS_PUBCOMB.pep: *
 7: /cgn2_6/_ptodata/1/_pubpaa/_US08_PUBCOMB.pep: *
 8: /cgn2_6/_ptodata/1/_pubpaa/_US08_PUBCOMB.pep: *
 9: /cgn2_6/_ptodata/1/_pubpaa/_US09A_PUBCOMB.pep: *
 10: /cgn2_6/_ptodata/1/_pubpaa/_US09B_PUBCOMB.pep: *
 11: /cgn2_6/_ptodata/1/_pubpaa/_US09C_PUBCOMB.pep: *
 12: /cgn2_6/_ptodata/1/_pubpaa/_US09_NEW_PUB.pep: *
 13: /cgn2_6/_ptodata/1/_pubpaa/_US10A_PUBCOMB.pep: *
 14: /cgn2_6/_ptodata/1/_pubpaa/_US10B_PUBCOMB.pep: *
 15: /cgn2_6/_ptodata/1/_pubpaa/_US10C_PUBCOMB.pep: *
 16: /cgn2_6/_ptodata/1/_pubpaa/_US10_NEW_PUB.pep: *
 17: /cgn2_6/_ptodata/1/_pubpaa/_US60_NEW_PUB.pep: *
 18: /cgn2_6/_ptodata/1/_pubpaa/_US60_PUBCOMB.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	2211	100.0	431	9 US-09-866-028-83
2	2211	100.0	431	9 US-09-999-722-515
3	2211	100.0	431	9 US-09-999-723-515
4	2211	100.0	431	9 US-09-999-273-515
5	2211	100.0	431	9 US-09-999-272-515
6	2211	100.0	431	9 US-09-944-449-83
7	2211	100.0	431	9 US-09-944-731-515
8	2211	100.0	431	9 US-09-944-457-83
9	2211	100.0	431	9 US-09-944-862-83
10	2211	100.0	431	9 US-09-949-732-515
11	2211	100.0	431	9 US-09-991-073-515
12	2211	100.0	431	9 US-09-945-587-83
13	2211	100.0	431	9 US-09-990-442-515
14	2211	100.0	431	9 US-09-991-163-515
15	2211	100.0	431	9 US-09-945-015-83

RESULT 1
 US-09-866-028-83
 Sequence 83, Application US/09866028
 Patent No. US20020058309A1
 GENERAL INFORMATION:
 APPLICANT: Baker, Kevin
 APPLICANT: Botstein, David
 APPLICANT: Eaton, Dan
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Filvaroff, Eileen
 APPLICANT: Geritsse, Mary
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul
 APPLICANT: Grimaldi, Christopher
 APPLICANT: Gurney, Austin
 APPLICANT: Hillian, Kenneth
 APPLICANT: Klijavin, Ivar
 APPLICANT: Napier, Mary
 APPLICANT: Roy, Margaret
 APPLICANT: Tumas, Daniel
 APPLICANT: Wood, William
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEARIC ACIDS ENCODING THE SAME
 FILE REFERENCE: P2548PCT1
 CURRENT APPLICATION NUMBER: US/09/866,028
 CURRENT FILING DATE: 2001-05-25
 Prior application data removed - consult PALM or file wrapper
 NUMBER OF SEQ ID NOS: 120
 SEQ ID NO 83
 LENGTH: 431
 TYPE: PCT
 ORGANISM: Homo Sapien
 US-09-866-028-83

Query Match 100.0%; Score 2211; DB 9; Length 431;
 Best Local Similarity 100.0%; Pred. No. 1.3e-179;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MFRGGEGSLLTYTIVICFLTRLISASONCLKUSLBDVVIDIOSLSSKGIRGNEPVYISTQ 60
Db PRIOR APPLICATION NUMBER: 60/06533111
PRIOR FILING DATE: 1997-11-13
Qy PRIOR APPLICATION NUMBER: 60/06677000
PRIOR FILING DATE: 1997-11-24
Qy PRIOR APPLICATION NUMBER: 60/07594500
PRIOR FILING DATE: 1998-02-25
Db PRIOR APPLICATION NUMBER: 60/07891000
PRIOR FILING DATE: 1998-03-20
Qy PRIOR APPLICATION NUMBER: 60/08332200
PRIOR FILING DATE: 1998-04-28
Qy PRIOR APPLICATION NUMBER: 60/08400000
PRIOR FILING DATE: 1998-05-07
Db PRIOR APPLICATION NUMBER: 60/08710600
PRIOR FILING DATE: 1998-05-28
181 HLEKLFKMDAESQQLAYKEKGHSQSSORSSDDEAHILPENNSALPATAVAYASPHTSA 240
181 HLEKLFKMDAESQQLAYKEKGHSQSSORSSDDEAHILPENNSALPATAVAYASPHTSA 240
121 TDPSSLTRNLPSQELPQEDSLHGFQSAVTPLAHHTDYSKPTDISHRTDSQKRS 120
121 TDPSSLTRNLPSQELPQEDSLHGFQSAVTPLAHHTDYSKPTDISHRTDSQKRS 120
61 EDCINSCSTKNSIGDKACNLMPDTRTARONCYLFCPNEACPQPKAGIMSRII 120
61 EDCINSCSTKNSIGDKACNLMPDTRTARONCYLFCPNEACPQPKAGIMSRII 120
61 TDPSSLTRNLPSQELPQEDSLHGFQSAVTPLAHHTDYSKPTDISHRTDSQKRS 120
61 TDPSSLTRNLPSQELPQEDSLHGFQSAVTPLAHHTDYSKPTDISHRTDSQKRS 120
181 HLEKLFKMDAESQQLAYKEKGHSQSSORSSDDEAHILPENNSALPATAVAYASPHTSA 240
181 HLEKLFKMDAESQQLAYKEKGHSQSSORSSDDEAHILPENNSALPATAVAYASPHTSA 240
241 TPKPATLIPNTASVTPSGTSQPLATTPAVVTVTSQPTTLISTVFRAMATLQAMTT 300
241 TPKPATLIPNTASVTPSGTSQPLATTPAVVTVTSQPTTLISTVFRAMATLQAMTT 300
301 AVITTFQAPTDSKGSLTFPFBISNLTNTGYNFTALMSNVESSTMNKTSASNEG 360
301 AVITTFQAPTDSKGSLTFPFBISNLTNTGYNFTALMSNVESSTMNKTSASNEG 360
361 EASPGSSSQGSVUNQKSLPPEKMLLIGSLFGLVFLVIGLVLGVLGRILSESARRKRSRL 420
361 EASPGSSSQGSVUNQKSLPPEKMLLIGSLFGLVFLVIGLVLGVLGRILSESARRKRSRL 420
421 DYLINGIVDI 431
421 DYLINGIVDI 431
Db 421 DYLINGIVDI 431
Db 421 DYLINGIVDI 431

RESULT 2
US-09-989-722-515
; Sequence 515, Application US/09989722
; Parent NO: US/0020072067A1
GENERAL INFORMATION:
; APPLICANT: Asbkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Geber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PLIC63
CURRENT APPLICATION NUMBER: US/09/989, 722
CURRENT FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12

PRIOR FILING DATE: 1998-06-16
 PRIOR APPLICATION NUMBER: 60/089532
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089538
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089598
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089599
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089600
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089653
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089801
 PRIOR FILING DATE: 1998-06-18
 PRIOR APPLICATION NUMBER: 60/089907
 PRIOR FILING DATE: 1998-06-18
 PRIOR APPLICATION NUMBER: 60/089908
 PRIOR FILING DATE: 1998-06-18
 PRIOR APPLICATION NUMBER: 60/089947
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089948
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089952
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/090246
 PRIOR FILING DATE: 1998-06-22
 PRIOR APPLICATION NUMBER: 60/091252
 PRIOR FILING DATE: 1998-06-22
 PRIOR APPLICATION NUMBER: 60/091254
 PRIOR FILING DATE: 1998-06-22
 PRIOR APPLICATION NUMBER: 60/090349
 PRIOR FILING DATE: 1998-06-23
 PRIOR APPLICATION NUMBER: 60/091355
 PRIOR FILING DATE: 1998-06-23
 PRIOR APPLICATION NUMBER: 60/091429
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090431
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090435
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090444
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090445
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090472
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090535
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090540
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090542
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090557
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090576
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090578
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090590
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090694
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090695
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090696
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090862
 PRIOR FILING DATE: 1998-06-26
 PRIOR APPLICATION NUMBER: 60/090863
 PRIOR FILING DATE: 1998-06-26
 PRIOR APPLICATION NUMBER: 60/091360
 PRIOR FILING DATE: 1998-07-01

PRIOR APPLICATION NUMBER: 60/091478
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091544
 PRIOR FILING DATE: 1998-07-01
 PRIOR APPLICATION NUMBER: 60/091519
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091626
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091633
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091978
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 2211; DB 9; Length 431;
 Best Local Similarity 100.0%; Pred. No. 1.3e-179;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MFFGGGGSLTIVLICFLTRLSAQNCUKSLIEDVVDIQQSSKGTRGNENPYVSTO 60
 Db 61 EDCINSCSTKNISGDACNMIFDTRKTAQPNCLFFCPNEEACPLPAKGLMSYRII 120
 Db 61 EDCINSCSTKNISGDACNMIFDTRKTAQPNCLFFCPNEEACPLPAKGLMSYRII 120
 Qy 121 TDFPSLITRNLPSQELPQEDSLHGPQFQSAVTPLAHHTHDTYSKPTDISWRDNLQSQKFGSSD 180
 Db 121 TDFPSLITRNLPSQELPQEDSLHGPQFQSAVTPLAHHTHDTYSKPTDISWRDNLQSQKFGSSD 180
 Qy 181 HLEKLKMDENSAQQLAYKEGHSSQSFSQSDQETAHLLENNSALPATAVASHTSA 240
 Db 181 HLEKLKMDENSAQQLAYKEGHSSQSFSQSDQETAHLLENNSALPATAVASHTSA 240
 Qy 241 TPKPATLPTMASVTPSGTSQPLATAPUTTISQPTLISAVTRAAQIATTQAMATT 300
 Db 241 TPKPATLPTMASVTPSGTSQPLATAPUTTISQPTLISAVTRAAQIATTQAMATT 300
 Qy 301 AVLTTTFRQAPTDSKGSLETTPTETISNLNTINTGNYNTPALMSMSNVEESTMKTASWGR 360
 Db 301 AVLTTTFRQAPTDSKGSLETTPTETISNLNTINTGNYNTPALMSMSNVEESTMKTASWGR 360
 Qy 361 EASPGSSQSQSVENOGGLQPEKWLIGSLFGVFLVGLVLRILSLSRKKYRSRL 420
 Db 361 EASPGSSQSQSVENOGGLQPEKWLIGSLFGVFLVGLVLRILSLSRKKYRSRL 420
 Qy 421 DYLINGIYVDI 431
 Db 421 DYLINGIYVDI 431
 Db 421 DYLINGIYVDI 431

RESULT 3
 US-09-989-723-515
 ; Sequence 515, Application US/09989723
 ; Patent No. US20020072052A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi J.
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyer, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gerber, Hansperger
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Marty A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanaabe, Colin K.
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zenlin

 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 TITLE OF INVENTION: Acids Encoding the Same

 FILE REFERENCE: P27301C62
 CURRENT APPLICATION NUMBER: US/09/989,723
 CURRENT FILING DATE: 2001-11-19
 PRIOR APPLICATION NUMBER: 60/049787
 PRIOR FILING DATE: 1997-06-16
 PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/065186
 PRIOR FILING DATE: 1997-11-12
 PRIOR APPLICATION NUMBER: 60/065311
 PRIOR FILING DATE: 1997-11-13
 PRIOR APPLICATION NUMBER: 60/065770
 PRIOR FILING DATE: 1997-11-24
 PRIOR APPLICATION NUMBER: 60/075945
 PRIOR FILING DATE: 1998-02-25
 PRIOR APPLICATION NUMBER: 60/07910
 PRIOR FILING DATE: 1998-03-20
 PRIOR APPLICATION NUMBER: 60/083322
 PRIOR FILING DATE: 1998-04-28
 PRIOR APPLICATION NUMBER: 60/084600
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/087106
 PRIOR FILING DATE: 1998-05-28
 PRIOR APPLICATION NUMBER: 60/087607
 PRIOR FILING DATE: 1998-06-02
 PRIOR APPLICATION NUMBER: 60/087609
 PRIOR FILING DATE: 1998-06-02
 PRIOR APPLICATION NUMBER: 60/087759
 PRIOR FILING DATE: 1998-06-02
 PRIOR APPLICATION NUMBER: 60/087827
 PRIOR FILING DATE: 1998-06-03
 PRIOR APPLICATION NUMBER: 60/088021
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088025
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088026
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088028
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088029
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088030
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088033
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088326
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088167
 PRIOR FILING DATE: 1998-06-05
 PRIOR APPLICATION NUMBER: 60/088202
 PRIOR FILING DATE: 1998-06-05
 PRIOR APPLICATION NUMBER: 60/088212
 PRIOR FILING DATE: 1998-06-05
 PRIOR APPLICATION NUMBER: 60/088217
 PRIOR FILING DATE: 1998-06-05
 PRIOR APPLICATION NUMBER: 60/088655
 PRIOR FILING DATE: 1998-06-09
 PRIOR APPLICATION NUMBER: 60/088734
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088738
 PRIOR FILING DATE: 1998-06-10

 PRIOR APPLICATION NUMBER: 60/088742
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088810
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088824
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088826
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088858
 PRIOR FILING DATE: 1998-06-11
 PRIOR APPLICATION NUMBER: 60/088861
 PRIOR FILING DATE: 1998-06-11
 PRIOR APPLICATION NUMBER: 60/088876
 PRIOR FILING DATE: 1998-06-11
 PRIOR APPLICATION NUMBER: 60/089105
 PRIOR FILING DATE: 1998-06-12
 PRIOR APPLICATION NUMBER: 60/089440
 PRIOR FILING DATE: 1998-06-16
 PRIOR APPLICATION NUMBER: 60/089512
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089514
 PRIOR FILING DATE: 1998-06-16
 PRIOR APPLICATION NUMBER: 60/089532
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089538
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089598
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089599
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089600
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089653
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089710
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089801
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089907
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089908
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089947
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089948
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089952
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089947
 PRIOR FILING DATE: 1998-06-22
 PRIOR APPLICATION NUMBER: 60/090252
 PRIOR FILING DATE: 1998-06-22
 PRIOR APPLICATION NUMBER: 60/090254
 PRIOR FILING DATE: 1998-06-22
 PRIOR APPLICATION NUMBER: 60/090349
 PRIOR FILING DATE: 1998-06-23
 PRIOR APPLICATION NUMBER: 60/090355
 PRIOR FILING DATE: 1998-06-23
 PRIOR APPLICATION NUMBER: 60/090429
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090431
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090435
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090444
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090445
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090472
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090535
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090540
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090542

PRIOR APPLICATION NUMBER: 60/090557
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090676
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090678
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090690
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090694
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090695
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090696
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090862
 PRIOR FILING DATE: 1998-06-26
 PRIOR APPLICATION NUMBER: 60/090863
 PRIOR FILING DATE: 1998-06-26
 PRIOR APPLICATION NUMBER: 60/091360
 PRIOR FILING DATE: 1998-07-01
 PRIOR APPLICATION NUMBER: 60/091478
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091544
 PRIOR FILING DATE: 1998-07-01
 PRIOR APPLICATION NUMBER: 60/091519
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091626
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091633
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091978
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0% Score 2211; DB 9; Length 431;
 Best Local Similarity 100.0%; Pred. No. 1, 3e-179; Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MFFGGECSLYTYVIVIICFLTRLUSASNCNLKSLKSLLEDVVVIDQSSLSKGTRGNEDVYVSTQ 60
 1 MFFGGECSLYTYVIVIICFLTRLUSASNCNLKSLKSLLEDVVVIDQSSLSKGTRGNEDVYVSTQ 60

61 EDCINSCSTKNSGDKACNLIMFDTRKTPARQNCYLIFCPNBRACPKPAKGMSYRII 120
 61 EDCINSCSTKNSGDKACNLIMFDTRKTPARQNCYLIFCPNBRACPKPAKGMSYRII 120

61 EDCINSCSTKNSGDKACNLIMFDTRKTPARQNCYLIFCPNBRACPKPAKGMSYRII 120

121 TDFFSLTRNLPSQELPQEDSLHQQPSQAVTPLAHHHDYSPKPDISWRTLSOKFGSSD 180
 121 TDFFSLTRNLPSQELPQEDSLHQQPSQAVTPLAHHHDYSPKPDISWRTLSOKFGSSD 180

181 HLEKLFMDEASAQQLAYKEKGHSQOSQFSSDQBIAHLLPEVNSALPAVAVASPHRTSA 240
 181 HLEKLFMDEASAQQLAYKEKGHSQOSQFSSDQBIAHLLPEVNSALPAVAVASPHRTSA 240

241 TPKPATLPTNNSVTPGTSQPOLATARPVVTTSQPTTLISTVFRAAQLOMATT 300
 241 TPKPATLPTNNSVTPGTSQPOLATARPVVTTSQPTTLISTVFRAAQLOMATT 300

301 AVLTTPQAPTDGSKSLETIPFTEISINTLNGVNPNTALMSNEVSTMNKTAWSGR 360
 301 AVLTTPQAPTDGSKSLETIPFTEISINTLNGVNPNTALMSNEVSTMNKTAWSGR 360

361 EASPGSSQSQSYENQYGLPFKEWNLGLSILFGVLFVIGVLVIGRILSESLLRKRRYSLR 420
 361 EASPGSSQSQSYENQYGLPFKEWNLGLSILFGVLFVIGVLVIGRILSESLLRKRRYSLR 420

421 DYLINGTYVDI 431
 421 DYLINGTYVDI 431

421 DYLINGTYVDI 431

RESULT 4
 US-09-989-279-515
 Sequence 515, Application US/09989279
 Patent No. US2002072496A1
 GENERAL INFORMATION:
 APPLICANT: Abkenazi, Avi J.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrar, Napoleone
 APPLICANT: Fong, Sherman
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary B.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Kjavian, Ivar J.
 APPLICANT: Napier, Mary A.
 APPLICANT: Fan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanabe, Colin K.
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE REFERENCE: P2730B1C56
 CURRENT APPLICATION NUMBER: US/09/989,279
 CURRENT FILING DATE: 2001-11-19
 PRIOR APPLICATION NUMBER: 60/049787
 PRIOR FILING DATE: 1997-06-16
 PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/065186
 PRIOR FILING DATE: 1997-11-12
 PRIOR APPLICATION NUMBER: 60/065311
 PRIOR FILING DATE: 1997-11-13
 PRIOR APPLICATION NUMBER: 60/066770
 PRIOR FILING DATE: 1997-11-24
 PRIOR APPLICATION NUMBER: 60/075945
 PRIOR FILING DATE: 1998-02-25
 PRIOR APPLICATION NUMBER: 60/078910
 PRIOR FILING DATE: 1998-03-20
 PRIOR APPLICATION NUMBER: 60/083322
 PRIOR FILING DATE: 1998-04-28
 PRIOR APPLICATION NUMBER: 60/084600
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/087106
 PRIOR FILING DATE: 1998-05-28
 PRIOR APPLICATION NUMBER: 60/087607
 PRIOR FILING DATE: 1998-06-02
 PRIOR APPLICATION NUMBER: 60/087609
 PRIOR FILING DATE: 1998-06-02
 PRIOR APPLICATION NUMBER: 60/088025
 PRIOR FILING DATE: 1998-06-02
 PRIOR APPLICATION NUMBER: 60/087827
 PRIOR FILING DATE: 1998-06-03
 PRIOR APPLICATION NUMBER: 60/088021
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088028
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088029

PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088742
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088810
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1999-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22

PRIOR APPLICATION NUMBER: 60/090349	PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355	PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429	PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431	PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445	PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472	PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535	PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557	PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090567	PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090678	PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695	PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090699	PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862	PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/091544	PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519	PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626	PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633	PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978	PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982	PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182	PRIOR FILING DATE: 1998-07-09
PRIOR FILING DATE: 1998-07-09	Query Match
Best Local Similarity	100 %; Score
Matches	431; Conservative 0; Predicted
Qy	1 MFFGGEGSLLTVLICFLTLRLSAS
Db	1 MFFGGEGSLLTVLICFLTLRLSAS
Qy	61 EDCINSCCSTNSTGKACNMIFDPT
Db	61 EDCINSCCSTNSTGKACNMIFDPT
Qy	121 TDPSPSTRNLPQSQELPQEDSLHLQGP

RESULT 5
US-03-989-727-515
Sequence 515, Application US/09989727
; General Information:
; APPLICANT: Ahkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritzen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hsiao, Kuan J.
; APPLICANT: Kjavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC65
CURRENT APPLICATION NUMBER: US/09/989-727
CURRENT FILING DATE: 2001-11-19
PRIORITY APPLICATION NUMBER: 60/049787
PRIORITY FILING DATE: 1997-06-16
PRIORITY APPLICATION NUMBER: 60/062250
PRIORITY FILING DATE: 1997-10-17
PRIORITY APPLICATION NUMBER: 60/065186
PRIORITY FILING DATE: 1997-11-12
PRIORITY APPLICATION NUMBER: 60/065311
PRIORITY FILING DATE: 1997-11-13
PRIORITY APPLICATION NUMBER: 60/06670
PRIORITY FILING DATE: 1997-11-24
PRIORITY APPLICATION NUMBER: 60/077945
PRIORITY FILING DATE: 1998-02-25
PRIORITY APPLICATION NUMBER: 60/078910
PRIORITY FILING DATE: 1998-03-20
PRIORITY APPLICATION NUMBER: 60/083322
PRIORITY FILING DATE: 1998-04-28
; Prior Applications:
301 AVLTTFQAPDTSKGSLETIPTEISNLTUNGNVNTAISMSNVESSTNKTASWGR 360
361 EASPGSSSQGSVPENQYGLPFEKWLJLGSFLFGVLFLVIGVLVIGLRLTSESIRKRSRL 420
361 EASPGSSSQGSVPENQYGLPFEKWLJLGSFLFGVLFLVIGVLVIGLRLTSESIRKRSRL 420
421 DYLINGIVVDI 431
421 DYLINGIVVDI 431

PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
PRIOR FILING DATE: 1998-05-02
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-05-03
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088026
PRIOR FILING DATE: 1998-05-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-05-04
PRIOR APPLICATION NUMBER: 60/088033
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088224
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088226
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088234
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/08824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/08826
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/08828
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/08861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089440
PRIOR FILING DATE: 1998-06-15
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089599
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089600

PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089807
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089908
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089947
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089948
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090252
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090254
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090349
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090355
PRIOR FILING DATE: 1998-06-23
PRIOR APPLICATION NUMBER: 60/090429
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090431
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090435
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090445
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090472
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090535
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090542
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090557
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091549
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02

Query Match 100.0%; Score 2211; DB 9; Length 431;
Best Local Similarity 100.0%; Pred. No. 1.3e-179;
Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MFFGGESLTIVLICFLTLRSLASQNCLKSLEDVIDOISSLSKGIRGNEPVYSTQ 60
Db 1 MFFGGESLTIVLICFLTLRSLASQNCLKSLEDVIDOISSLSKGIRGNEPVYSTQ 60
Db 61 EDCINSCSTKNSIGDKACNLMIFDRTRKAROPNCVLFPCNEBAPLPKAGLMSYRII 120
Db 61 TDFPSLTRLNLSQBLPOEDSLHIGQSQAVPLAHHTDYSKPTDLSWRDTLSQKSSD 180
Db 61 EDCINSCSTKNSIGDKACNLMIFDRTRKAROPNCVLFPCNEBAPLPKAGLMSYRII 120
Db 121 TDFPSLTRLNLSQBLPOEDSLHIGQSQAVPLAHHTDYSKPTDLSWRDTLSQKSSD 180
Db 181 HUEKLKDNDEASQALAYKEKHSQSQFSQDQIAHLPENSAVPLATVAVASPHHTSA 240
Db 181 HUEKLKDNDEASQALAYKEKHSQSQFSQDQIAHLPENSAVPLATVAVASPHHTSA 240
Db 241 TPKPATLPTLNASVTSFGTSQPLQARTAPPVVTTSQOPTLISVTRAALQAMATT 300
Db 241 TPKPATLPTLNASVTSFGTSQPLQARTAPPVVTTSQOPTLISVTRAALQAMATT 300
Db 301 AVLTTEQAPTDKSGSLETIPPTETISLTLTNGVNVTALMSNYESSTMKNTASNEGR 360
Db 301 AVLTTEQAPTDKSGSLETIPPTETISLTLTNGVNVTALMSNYESSTMKNTASNEGR 360
Db 361 EASPGSSSQGSVENEQGLPEKMLLGSUFGVLEFLVIGULVLGRILSESURKRYSR 420
Db 361 EASPGSSSQGSVENEQGLPEKMLLGSUFGVLEFLVIGULVLGRILSESURKRYSR 420
Qy 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431
Db 421 DYLINGIYVDI 431

RESULT 6
US-09-944-449-83
; Sequence 83, Application US/0994449
; Patent No. US20020102647A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin
; APPLICANT: Boststein, David
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerritsen, Mary
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Grimaldi, Christopher
; APPLICANT: Gurney, Austin
; APPLICANT: Hillan, Kenneth
; APPLICANT: Kiljavin, Ivar
; APPLICANT: Napier, Mary
; APPLICANT: Roy, Margaret
; APPLICANT: Tumas, Daniel
; APPLICANT: Wood, William
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2548P1C1
TITLE OF INVENTION: ACIDS ENCODING THE SAME
CURRENT APPLICATION NUMBER: US/09/944,449
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 60/067,411
PRIOR APPLICATION NUMBER: 60/091633

PRIOR FILING DATE: December 3, 1997
 PRIOR APPLICATION NUMBER: 60/069,334
 PRIOR FILING DATE: December 11, 1997
 PRIOR APPLICATION NUMBER: 60/06335
 PRIOR FILING DATE: December 11, 1997
 PRIOR APPLICATION NUMBER: 60/069,278
 PRIOR FILING DATE: December 11, 1997
 PRIOR APPLICATION NUMBER: 60/069,425
 PRIOR FILING DATE: December 12, 1997
 PRIOR APPLICATION NUMBER: 60/069,696
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 60/065,870
 PRIOR FILING DATE: December 17, 1997
 PRIOR APPLICATION NUMBER: 60/069,694
 PRIOR FILING DATE: December 17, 1997
 PRIOR APPLICATION NUMBER: 60/068,017
 PRIOR FILING DATE: December 18, 1997
 PRIOR APPLICATION NUMBER: 60/070,440
 PRIOR FILING DATE: January 5, 1998
 PRIOR APPLICATION NUMBER: 60/074,086
 PRIOR FILING DATE: February 9, 1998
 PRIOR APPLICATION NUMBER: 60/074,092
 PRIOR FILING DATE: February 9, 1998
 PRIOR APPLICATION NUMBER: 60/075,945
 PRIOR FILING DATE: February 25, 1998
 PRIOR APPLICATION NUMBER: 60/112,850
 PRIOR FILING DATE: December 16, 1998
 PRIOR APPLICATION NUMBER: 60/113,296
 PRIOR FILING DATE: December 22, 1998
 PRIOR APPLICATION NUMBER: 60/146,222
 PRIOR FILING DATE: July 28, 1998
 PRIOR APPLICATION NUMBER: PCT/US98/19330
 PRIOR FILING DATE: September 16, 1998
 PRIOR APPLICATION NUMBER: PCT/US98/25108
 PRIOR FILING DATE: December 1, 1998
 PRIOR APPLICATION NUMBER: 09/216,021
 PRIOR FILING DATE: December 16, 1998
 PRIOR APPLICATION NUMBER: 09/218,517
 PRIOR FILING DATE: December 22, 1998
 PRIOR APPLICATION NUMBER: 09/254,311
 PRIOR FILING DATE: March 3, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/12252
 PRIOR FILING DATE: June 22, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/21090
 PRIOR FILING DATE: September 15, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/28409
 PRIOR FILING DATE: NO. US2002102647A1ember 30, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/28313
 PRIOR FILING DATE: NO. US2002102647A1ember 30, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/28301
 PRIOR FILING DATE: December 1, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/30095
 PRIOR FILING DATE: December 16, 1999
 PRIOR APPLICATION NUMBER: PCT/US00/03565
 PRIOR FILING DATE: February 11, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/04414
 PRIOR FILING DATE: February 22, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/05841
 PRIOR FILING DATE: March 2, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/08439
 PRIOR FILING DATE: March 30, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/14442
 PRIOR FILING DATE: May 22, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/20710
 PRIOR FILING DATE: July 28, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/32678
 PRIOR FILING DATE: December 1, 2000
 PRIOR APPLICATION NUMBER: PCT/US01/06520
 PRIOR FILING DATE: February 28, 2001

Query Match 100.0%; Score 2211; DB 9; Length 431;
 Best Local Similarity 100.0%; Pred. No. 1.3e-179;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPPGGGGSLTYTLVICFLTURSLISQNCUKSLSDVWIDIOSISKIRGNEPYUTSQ 60
 Db 1 MPPGGGGSLTYTLVICFLTURSLISQNCUKSLSDVWIDIOSISKIRGNEPYUTSQ 60
 Db 1 TDPPSITRNLUQPSQELPQEDSLHQSQATPLAHHTDYSKPTISWRUTSQREGSSD 180
 QY 61 EDCINSCTKNSIGDKACNUMLFDTKTRQPNCPYLLFPNPNEACPKPAKGLMSYRI 120
 Db 61 EDCINSCTKNSIGDKACNUMLFDTKTRQPNCPYLLFPNPNEACPKPAKGLMSYRI 120
 Db 61 HLEKLKFDNEASQALIAYKEGHSSOSFSQSDOEAHLIENVSALPATAVASHTSA 240
 Db 181 HLEKLKFDNEASQALIAYKEGHSSOSFSQSDOEAHLIENVSALPATAVASHTSA 240
 Db 121 TDPPSITRNLUQPSQELPQEDSLHQSQATPLAHHTDYSKPTISWRUTSQREGSSD 180
 QY 181 TDPPSITRNLUQPSQELPQEDSLHQSQATPLAHHTDYSKPTISWRUTSQREGSSD 180
 Db 241 TPKPATLPTNWSVPGTSQPSQATTAQPTTTSQPSPTLISVPTAATQAMATT 300
 Db 241 TPKPATLPTNWSVPGTSQPSQATTAQPTTTSQPSPTLISVPTAATQAMATT 300
 QY 301 AVLTTFFQAPTDKSGLSETLPFTESNLNTGNTNYPALMSMSAVESSTMKTAWSWGR 360
 Db 301 AVLTTFFQAPTDKSGLSETLPFTESNLNTGNTNYPALMSMSAVESSTMKTAWSWGR 360
 QY 361 EASPGSSQSQSVENQYGLPREKWLLGSLFLGVFLVIGLVLGRILSLSRRYYSRL 420
 Db 361 EASPGSSQSQSVENQYGLPREKWLLGSLFLGVFLVIGLVLGRILSLSRRYYSRL 420
 QY 421 DYLINGIYVDI 431
 Db 421 DYLINGIYVDI 431

RESULT 7
 US-09-989-731-515
 ; Sequence 515, Application US/09989731
 ; Patent No. US20020103125A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi J.
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Destroyer, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanabe, Colin K.
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; APPLICANT: Zhang, Zemin

APPLICANT: Ferrara, Napoleone
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Gerritsen, Mary
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul
 APPLICANT: Grimaldi, Christopher
 APPLICANT: Gurney, Austin
 APPLICANT: Hillan, Kenneth
 APPLICANT: Kljavin, Ivar
 APPLICANT: Napier, Mary
 APPLICANT: Roy, Margaret
 APPLICANT: Tumas, Daniel
 APPLICANT: Wood, William

APPLICATION NUMBER: 60/090695
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

FILE REFERENCE: P2548P1C1

CURRENT APPLICATION NUMBER: US/09/944,457

PRIOR APPLICATION NUMBER: 09/866,028
 PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: 60/091519
 PRIOR FILING DATE: 1998-07-02

PRIOR APPLICATION NUMBER: 60/091360
 PRIOR FILING DATE: 1998-07-01

PRIOR APPLICATION NUMBER: 60/091626
 PRIOR FILING DATE: 1998-07-02

PRIOR APPLICATION NUMBER: 60/091633
 PRIOR FILING DATE: 1998-07-02

PRIOR APPLICATION NUMBER: 60/091978
 PRIOR FILING DATE: 1998-07-07

PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07

PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 2211; DB 9; Length 431;
 Best Local Similarity 100.0%; Pred. No. 1.3e-179;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPPGGEGSLTYTIVLICFLTRLRLASONCLKKSSLEDVYDIOSSLSKGIRNEPVYSTQ 60
 Db 1 MFFGEGEGLTYTIVLICFLTRLRLASONCLKKSSLEDVYDIOSSLSKGIRNEPVYSTQ 60

QY 61 EDCINSCCSTKNISGDKACNMFDRKTAQOPNCYLIFFCNEAECPLPKPKGLMSYRII 120
 Db 61 EDCINSCCSTKNISGDKACNMFDRKTAQOPNCYLIFFCNEAECPLPKPKGLMSYRII 120

QY 121 TDFPSLTRANLSQLPQELFQEDSLHQSQAVPLAHHTDSSKPTDISWRDLSQKGSSD 180
 Db 121 TDFPSLTRANLSQLPQELFQEDSLHQSQAVPLAHHTDSSKPTDISWRDLSQKGSSD 180

QY 181 HLEKLFLKMDAESQASQLLAYKEKCHQSOSQSPSSDQETAHLLPENVALPATVAVSPHTSA 240
 Db 181 HLEKLFLKMDAESQASQLLAYKEKCHQSOSQSPSSDQETAHLLPENVALPATVAVSPHTSA 240

QY 241 TPKPATLPTQAPDSKGSLTEPTEISLNTLNGNVNNTAISMSNVESTNNTKASWGR 300
 Db 241 TPKPATLPTQAPDSKGSLTEPTEISLNTLNGNVNNTAISMSNVESTNNTKASWGR 300

QY 301 AVLTTFQAPDSKGSLTEPTEISLNTLNGNVNNTAISMSNVESTNNTKASWGR 360
 Db 301 AVLTTFQAPDSKGSLTEPTEISLNTLNGNVNNTAISMSNVESTNNTKASWGR 360

QY 361 EASPGSSSQGSVPENQYGLPFFKWLJLGSFLFGVLFLVIGVLGRILSESRKRSRL 420
 Db 361 EASPGSSSQGSVPENQYGLPFFKWLJLGSFLFGVLFLVIGVLGRILSESRKRSRL 420

QY 421 DYLINGIYVDI 431
 Db 421 DYLINGIYVDI 431

RESULT 8
 US-03-944-457-B3
 Sequence 83, Application US/09944457
 Patent No. US200210859A1
 GENERAL INFORMATION:
 APPLICANT: Baker, Kevin
 APPLICANT: Botstein, David
 APPLICANT: Eaton, Dan

PRIOR APPLICATION NUMBER: PCT/US99/12252
 PRIOR FILING DATE: June 22, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/21090
 PRIOR FILING DATE: September 15, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/28409
 PRIOR FILING DATE: NOV/2000
 PRIOR APPLICATION NUMBER: US/0010852A1
 PRIOR APPLICATION NUMBER: PCT/US99/28313

PRIOR FILING DATE: NO. US200201108591a
 PRIORITY NUMBER: PCT/US99/28301
 PRIORITY FILING DATE: December, 1999
 PRIORITY APPLICATION NUMBER: PCT/US99/30095
 PRIORITY FILING DATE: December 16, 1999
 PRIORITY APPLICATION NUMBER: PCT/US00/03565
 PRIORITY FILING DATE: February 11, 2000
 PRIORITY APPLICATION NUMBER: PCT/US00/04414
 PRIORITY FILING DATE: February 22, 2000
 PRIORITY APPLICATION NUMBER: PCT/US00/05841
 PRIORITY FILING DATE: March 2, 2000
 PRIORITY APPLICATION NUMBER: PCT/US00/08439
 PRIORITY FILING DATE: March 30, 2000
 PRIORITY APPLICATION NUMBER: PCT/US00/14042
 PRIORITY FILING DATE: May 22, 2000
 PRIORITY APPLICATION NUMBER: PCT/US00/20710
 PRIORITY FILING DATE: July 28, 2000
 PRIORITY APPLICATION NUMBER: PCT/US00/32678
 PRIORITY FILING DATE: December 1, 2000
 PRIORITY APPLICATION NUMBER: PCT/US01/06520
 PRIORITY FILING DATE: February 28, 2001
 NUMBER OF SEQ ID NOS: 120
 SEQ ID NO: 83
 LENGTH: 431
 TYPE: PRT
 ORGANISM: Homo sapien
 US-09-944-457-83

Query Match 100.0%; Score 2211; DB 9; Length 431;
 Best Local Similarity 100.0%; Pred. No. 1.3e-179;
 Matchers 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MFFGEGGSLLTVLICFLTRLSAQNCIKSLEDWVIDQSSLSKGIRGNEPYSTQ 60
 Db 1 MFFGEGGSLLTVLICFLTRLSAQNCIKSLEDWVIDQSSLSKGIRGNEPYSTQ 60

Qy 61 BDCINCACSTKNSIGKACNMFDRKTAQPNCLFLPGENEACPKAKGMSYRI 120
 Db 61 BDCINCACSTKNSIGKACNMFDRKTAQPNCLFLPGENEACPKAKGMSYRI 120

Qy 121 TDPSSLTRNLISQELQEDSILHGQFQSAVPLAHHTDYSKPTDSWRDTLSOKRGSSD 180
 Db 121 TDPSSLTRNLISQELQEDSILHGQFQSAVPLAHHTDYSKPTDSWRDTLSOKRGSSD 180

Qy 181 HLEKLFKNDENASQLLAYKEKGHSQSOFSQDQETAHLPENNSALPATAVASHTSA 240
 Db 181 HLEKLFKNDENASQLLAYKEKGHSQSOFSQDQETAHLPENNSALPATAVASHTSA 240

Qy 241 TPKPATLPLPTMASVPGTSQPLATAPPVTVSQPTTISTVFRANALQWATT 300
 Db 241 TPKPATLPLPTMASVPGTSQPLATAPPVTVSQPTTISTVFRANALQWATT 300

Qy 301 AVLTTFQAPDTSKSGKLETTIPTELENLTIGNVNTPAISMSUNVESSTNKATASWGR 360
 Db 301 AVLTTFQAPDTSKSGKLETTIPTELENLTIGNVNTPAISMSUNVESSTNKATASWGR 360

Qy 361 EASPGSSSQGSPENQYGLPPEKWLIGSLFGVLLVIGVLLRILSLLRKYRSRL 420
 Db 361 EASPGSSSQGSPENQYGLPPEKWLIGSLFGVLLVIGVLLRILSLLRKYRSRL 420

Qy 421 DYLINGIYVDI 431
 Db 421 DYLINGIYVDI 431

RESULT 9
 US-09-944-962-83
 Sequence 83, Application US/09944862
 Patent No. US2002011515A1
 GENERAL INFORMATION:
 APPLICANT: Baker, Kevin
 APPLICANT: Botstein, David
 APPLICANT: Baton, Dan

APPLICANT: Ferrara, Napoleon
 APPLICANT: Flivaroff, Ellen
 APPLICANT: Gerritsen, Mary
 APPLICANT: Goddard, Audrey
 APPLICANT: Grimaldi, Christopher
 APPLICANT: Gurney, Austin
 APPLICANT: Hillian, Kenneth
 APPLICANT: Kiljavin, Ivar
 APPLICANT: Napier, Mary
 APPLICANT: Roy, Margaret
 APPLICANT: Tumas, Daniel
 APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME
 TITLE OF INVENTION: ACIDS ENCODING THE SAME
 FILE REFERENCE: P2549P1C1
 CURRENT APPLICATION NUMBER: US09/944, 862
 CURRENT FILING DATE: 2001-09-26
 PRIOR APPLICATION NUMBER: 09/886, 028
 PRIOR FILING DATE: 2001-05-25
 PRIOR APPLICATION NUMBER: 6/067, 411
 PRIOR FILING DATE: December 3, 1997
 PRIOR APPLICATION NUMBER: 6/069, 334
 PRIOR FILING DATE: December 11, 1997
 PRIOR APPLICATION NUMBER: 6/069,335
 PRIOR FILING DATE: December 11, 1997
 PRIOR APPLICATION NUMBER: 6/069,425
 PRIOR FILING DATE: December 12, 1997
 PRIOR APPLICATION NUMBER: 6/069,696
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 6/069,694
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 6/069,702
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 6/069,870
 PRIOR FILING DATE: December 17, 1997
 PRIOR APPLICATION NUMBER: 6/069,873
 PRIOR FILING DATE: December 17, 1997
 PRIOR APPLICATION NUMBER: 6/069,874
 PRIOR FILING DATE: December 18, 1997
 PRIOR APPLICATION NUMBER: 6/069,870
 PRIOR FILING DATE: January 5, 1998
 PRIOR APPLICATION NUMBER: 6/074,086
 PRIOR FILING DATE: February 9, 1998
 PRIOR APPLICATION NUMBER: 6/068,092
 PRIOR FILING DATE: December 9, 1998
 PRIOR APPLICATION NUMBER: 6/075,945
 PRIOR FILING DATE: February 25, 1998
 PRIOR APPLICATION NUMBER: 6/074,850
 PRIOR FILING DATE: December 16, 1998
 PRIOR APPLICATION NUMBER: 6/074,092
 PRIOR FILING DATE: February 9, 1998
 PRIOR APPLICATION NUMBER: 6/075,945
 PRIOR FILING DATE: February 25, 1998
 PRIOR APPLICATION NUMBER: 6/074,850
 PRIOR FILING DATE: December 16, 1998
 PRIOR APPLICATION NUMBER: 6/074,092
 PRIOR FILING DATE: December 22, 1998
 PRIOR APPLICATION NUMBER: 6/074,092
 PRIOR FILING DATE: July 28, 1999
 PRIOR APPLICATION NUMBER: PCT/US98/19330
 PRIOR FILING DATE: September 16, 1998
 PRIOR APPLICATION NUMBER: PCT/US98/25108
 PRIOR FILING DATE: December 1, 1998
 PRIOR APPLICATION NUMBER: 09/216,021
 PRIOR FILING DATE: December 16, 1998
 PRIOR APPLICATION NUMBER: 09/218,517
 PRIOR FILING DATE: December 22, 1998
 PRIOR APPLICATION NUMBER: 09/254,311
 PRIOR FILING DATE: March 3, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/12252
 PRIOR FILING DATE: June 22, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/21090
 PRIOR FILING DATE: September 15, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/28409
 PRIOR FILING DATE: NO. US2002011545A1
 PRIOR APPLICATION NUMBER: PCT/US99/28313

PRIOR FILING DATE: No. US20020115145A1ember 30, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/28301
 PRIOR FILING DATE: December, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/30095
 PRIOR FILING DATE: December 16, 1999
 PRIOR APPLICATION NUMBER: PCT/US00/03565
 PRIOR FILING DATE: February 11, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/04414
 PRIOR FILING DATE: February 22, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/05841
 PRIOR FILING DATE: March 2, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/08439
 PRIOR FILING DATE: March 30, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/14042
 PRIOR FILING DATE: May 22, 2000
 PRIOR APPLICATION NUMBER: PCT/US00/20710
 PRIOR FILING DATE: July 28, 2000
 PRIOR APPLICATION NUMBER: PCT/US01/06520
 PRIOR FILING DATE: December 1, 2000
 PRIOR APPLICATION NUMBER: PCT/US01/32678
 PRIOR FILING DATE: February 28, 2001
 NUMBER OF SEQ ID NOS: 120
 SEQ ID NO: 83
 LENGTH: 431
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-09-944-862-83

Query Match 100.0%; Score 2211; DB 9; Length 431;
 Best Local Similarity 100.0%; Pred. No. 1.3e-179;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MFRGGEGSILTYTLVVICFLTLRLSASONCLAKSLEDVVDIQLSSKGIRNEPVYSTQ 60
 Db 1 MFGGEGSILTYTLVVICFLTLRLSASONCLAKSLEDVVDIQLSSKGIRNEPVYSTQ 60

QY 61 BDCINSGCCSTKQISGDKACNMFDRKTAQPNCYLFFCNEEAPLKPQKGMSYRI 120
 Db 61 EDCINSGCCSTKQISGDKACNMFDRKTAQPNCYLFFCNEEAPLKPQKGMSYRI 120

QY 121 TDFPSLTRNLPSQELRQEDSLIHQFQSQAVTPLAHHTDKYKPTD1SWRDLQSKGSSD 180
 Db 121 TDFPSLTRNLPSQELRQEDSLIHQFQSQAVTPLAHHTDKYKPTD1SWRDLQSKGSSD 180

QY 181 HIEKLFQDEASAQQLAYKEKHSQSSQFSQEQIAHLPENVALPATAVASPHHTSA 240
 Db 181 HIEKLFQDEASAQQLAYKEKHSQSSQFSQEQIAHLPENVALPATAVASPHHTSA 240

QY 241 TPKPATLPLPTNSVTPGTSQPLATTAPPVITVSQPTTISTVTRAATLQWATT 300
 Db 241 TPKPATLPLPTNSVTPGTSQPLATTAPPVITVSQPTTISTVTRAATLQWATT 300

QY 301 AVLTTFOQAPDSKGSKLETPTEISLNTGNNVNTPLMSNVSESTNTKASWGR 360
 Db 301 AVLTTFOQAPDSKGSKLETPTEISLNTGNNVNTPLMSNVSESTNTKASWGR 360

QY 361 EASPGSSSQGSVPENOQGLPFFRKWLJLGSIFGVLFVIGVLMGLRITSESRKRSRL 420
 Db 361 EASPGSSSQGSVPENOQGLPFFRKWLJLGSIFGVLFVIGVLMGLRITSESRKRSRL 420

QY 421 DYLINGYVDI 431
 Db 421 DYLINGYVDI 431

RESULT 10
 US-09-989-732-515
 ; Sequence 515, Application US/09989732
 ; Patent No. US0020123463A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi J.
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Fong, Sherman
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Klavian, Ivar J.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanabe, Colin K.
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acid Encoding the Same

CURRENT APPLICATION NUMBER: US09/989,732
 CURRENT FILING DATE: 2001-11-19
 PRIOR APPLICATION NUMBER: 60/049787
 PRIOR FILING DATE: 1997-06-16
 PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/065186
 PRIOR FILING DATE: 1997-11-12
 PRIOR APPLICATION NUMBER: 60/065311
 PRIOR FILING DATE: 1997-11-13
 PRIOR APPLICATION NUMBER: 60/066770
 PRIOR FILING DATE: 1997-11-24
 PRIOR APPLICATION NUMBER: 60/075945
 PRIOR FILING DATE: 1998-02-25
 PRIOR APPLICATION NUMBER: 60/078910
 PRIOR FILING DATE: 1998-03-20
 PRIOR APPLICATION NUMBER: 60/083322
 PRIOR FILING DATE: 1998-04-28
 PRIOR APPLICATION NUMBER: 60/084600
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/087106
 PRIOR FILING DATE: 1998-05-28
 PRIOR APPLICATION NUMBER: 60/087607
 PRIOR FILING DATE: 1998-06-02
 PRIOR APPLICATION NUMBER: 60/087609
 PRIOR FILING DATE: 1998-06-02
 PRIOR APPLICATION NUMBER: 60/087759
 PRIOR FILING DATE: 1998-06-02
 PRIOR APPLICATION NUMBER: 60/087827
 PRIOR FILING DATE: 1998-06-03
 PRIOR APPLICATION NUMBER: 60/088021
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088025
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088026
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088028
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088029
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088030
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088033
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088326
 PRIOR FILING DATE: 1998-06-04
 PRIOR APPLICATION NUMBER: 60/088167
 PRIOR FILING DATE: 1998-06-05
 PRIOR APPLICATION NUMBER: 60/088202

PRIOR FILING DATE: 1998-06-05
 PRIOR APPLICATION NUMBER: 60/088212
 PRIOR FILING DATE: 1998-06-05
 PRIOR APPLICATION NUMBER: 60/088217
 PRIOR FILING DATE: 1998-06-05
 PRIOR APPLICATION NUMBER: 60/088655
 PRIOR FILING DATE: 1998-06-09
 PRIOR APPLICATION NUMBER: 60/088734
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088738
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088742
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088810
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088824
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088826
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088858
 PRIOR FILING DATE: 1998-06-11
 PRIOR APPLICATION NUMBER: 60/088861
 PRIOR FILING DATE: 1998-06-11
 PRIOR APPLICATION NUMBER: 60/088876
 PRIOR FILING DATE: 1998-06-11
 PRIOR APPLICATION NUMBER: 60/089510
 PRIOR FILING DATE: 1998-06-12
 PRIOR APPLICATION NUMBER: 60/089440
 PRIOR FILING DATE: 1998-06-16
 PRIOR APPLICATION NUMBER: 60/089512
 PRIOR FILING DATE: 1998-06-16
 PRIOR APPLICATION NUMBER: 60/089514
 PRIOR FILING DATE: 1998-06-16
 PRIOR APPLICATION NUMBER: 60/089532
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089538
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089598
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089599
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089600
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089653
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089801
 PRIOR FILING DATE: 1998-06-18
 PRIOR APPLICATION NUMBER: 60/089907
 PRIOR FILING DATE: 1998-06-18
 PRIOR APPLICATION NUMBER: 60/089908
 PRIOR FILING DATE: 1998-06-18
 PRIOR APPLICATION NUMBER: 60/089947
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089948
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089952
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/090246
 PRIOR FILING DATE: 1998-06-22
 PRIOR APPLICATION NUMBER: 60/090252
 PRIOR FILING DATE: 1998-06-22
 PRIOR APPLICATION NUMBER: 60/090254
 PRIOR FILING DATE: 1998-06-22
 PRIOR APPLICATION NUMBER: 60/090349
 PRIOR FILING DATE: 1998-06-23
 PRIOR APPLICATION NUMBER: 60/090355
 PRIOR FILING DATE: 1998-06-23
 PRIOR APPLICATION NUMBER: 60/090429
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090431
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090435
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090535
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090540
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090542
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090557
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090676
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090678
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090690
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090694
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090695
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/091360
 PRIOR FILING DATE: 1998-07-01
 PRIOR APPLICATION NUMBER: 60/091478
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091544
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091519
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091626
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091633
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091978
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 2211; DB 9; Length 431;

Best Local Similarity 100.0%; Pred. No. 1.3e-179; Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 MFFGEGGSLLIYTIVICFUTIRLISQNCNLKKSLEDVYDVIDQISSKGTGRNENPYUTSTQ 60

Db 1 MFFGEGGSLLIYTIVICFUTIRLISQNCNLKKSLEDVYDVIDQISSKGTGRNENPYUTSTQ 60

Oy 61 EDCINSCCSTKNSIGDQKACNMIFDTRKTAQPNQCYLFFCPNEBACPLPKAKGMSYRII 120

Db 61 EDCINSCCSTKNSIGDQKACNLIMFDTTRKTAQPNQCYLFFCPNEBACPLPKAKGMSYRII 120

Oy 121 TDFPSLTRLNPLSQELPQEDSLHLQGFSQAVTPLAHHTDKSPDIDSWDTLSOKFGSSD 180

Db 121 TDFPSLTRLNPLSQELPQEDSLHLQGFSQAVTPLAHHTDKSPDIDSWDTLSOKFGSSD 180

Oy 181 HLEKLFMDERSAQLAKYKKGHQSOSQSSDQETAHUPEVNSALPATAVASHTSA 240

Db 181 HLEKLFMDERSAQLAKYKKGHQSOSQSSDQETAHUPEVNSALPATAVASHTSA 240

Oy 241 TPKPATLPTNAVTPSGTSQPLATTAAPVVTVTQSPTTILSTVTRAATQAMATT 300

Db 241 TPKPATLPTNAVTPSGTSQPLATTAAPVVTVTQSPTTILSTVTRAATQAMATT 300


```

; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/099948
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/089952
; PRIOR FILING DATE: 1998-06-19
; PRIOR APPLICATION NUMBER: 60/090246
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090252
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090254
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: 60/090349
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090355
; PRIOR FILING DATE: 1998-06-23
; PRIOR APPLICATION NUMBER: 60/090429
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090431
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090435
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090444
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090445
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090472
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090535
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090540
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090542
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090557
; PRIOR FILING DATE: 1998-06-24
; PRIOR APPLICATION NUMBER: 60/090676
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090678
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090690
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090696
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090697
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

```

```

Query Match Similarity 100 %; Score 2211; DB 9; Length 431;
Best Local Similarity 100 %; Pred. No. 1.3e-179; Indels 0; Gaps 0;
Matches 431; Conservative 0; Mismatches 0;

```

```

; Qy 1 MFFGEGSLTYLVIICFLTRLSAQSONCLKSLEDVVDIQQSSLSKGIRGNEPVUTSTQ 60
; Db 1 MFFGEGSLTYLVIICFLTRLSAQSONCLKSLEDVVDIQQSSLSKGIRGNEPVUTSTQ 60
; Qy 61 EDCINSCTSKNISGDRAKCHMIFDTRKTRARQPNQYLPFCPNEACPLPAKGLMSYRII 120
; Db 61 EDCINSCTSKNISGDRAKCHMIFDTRKTRARQPNQYLPFCPNEACPLPAKGLMSYRII 120
; Qy 121 TDPSLIRNLPQELPOEDSLHGPQSQAVPLAHHTDYSKPTDISWQDLSQKFGSSD 180
; Db 121 TDPSLIRNLPQELPOEDSLHGPQSQAVPLAHHTDYSKPTDISWQDLSQKFGSSD 180
; Qy 181 HLEKLFKMDEASAQLAKYKEKGHSQSOFSSDQETAHLPENSAVPATAVASPTSA 240
; Db 181 HLEKLFKMDEASAQLAKYKEKGHSQSOFSSDQETAHLPENSAVPATAVASPTSA 240
; Qy 241 TPKPATLPLPNAVTPGTSQPLATTAPVTTVSQPTTILSTVFRATLQAMATT 300
; Db 241 TPKPATLPLPNAVTPGTSQPLATTAPVTTVSQPTTILSTVFRATLQAMATT 300
; Qy 301 AVLTTFFQAPDSDKSSELTIPPELNLNTNTGNYNTPTALMSNVESSMANKTASWGR 360
; Db 301 AVLTTFFQAPDSDKSSELTIPPELNLNTNTGNYNTPTALMSNVESSMANKTASWGR 360
; Qy 361 EASPGSSSQSVENOGYGLPFEKWLIGSLIFGVILGRILSBSLRKRYSL 420
; Db 361 EASPGSSSQSVENOGYGLPFEKWLIGSLIFGVILGRILSBSLRKRYSL 420
; Qy 421 DYLINGIVVDI 431
; Db 421 DYLINGIVVDI 431

```

RESULT 12

US-09-945-587-83

Sequence 83, Application US/09945587

Patent No. US20020127643A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin

APPLICANT: Botstein, David

APPLICANT: Baton, Dan

APPLICANT: Ferrara, Napoleon

APPLICANT: Filvaroff, Ellen

APPLICANT: Gerritsen, Mary

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul

APPLICANT: Grimaldi, Christopher

APPLICANT: Gurney, Austin

APPLICANT: Hillian, Kenneth

APPLICANT: Kjavin, Tvar

APPLICANT: Napier, Mary

APPLICANT: Roy, Margaret

APPLICANT: Tumas, Daniel

APPLICANT: Wood, William

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC ACIDS ENCODING THE SAME

FILE REFERENCE: P2548P1C1

CURRENT APPLICATION NUMBER: US/09/445, 587

CURRENT FILING DATE: 2001-09-26

PRIOR APPLICATION NUMBER: 09/866, 028

PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: 60/097, 411

PRIOR FILING DATE: December 3, 1997

PRIOR APPLICATION NUMBER: 60/069, 334

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069335

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069, 278

PRIOR FILING DATE: December 11, 1997

PRIOR APPLICATION NUMBER: 60/069, 425

PRIOR FILING DATE: December 12, 1997

PRIOR APPLICATION NUMBER: 60/069, 696

PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 60/069,694
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 60/069,702
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 60/069,870
 PRIOR FILING DATE: December 17, 1997
 PRIOR APPLICATION NUMBER: 60/069,873
 PRIOR FILING DATE: December 17, 1997
 PRIOR APPLICATION NUMBER: 60/068,017
 PRIOR FILING DATE: December 18, 1997
 PRIOR APPLICATION NUMBER: 60/070,440
 PRIOR FILING DATE: January 5, 1998
 PRIOR APPLICATION NUMBER: 60/074,086
 PRIOR FILING DATE: February 9, 1998
 PRIOR APPLICATION NUMBER: 60/074,092
 PRIOR FILING DATE: February 9, 1998
 PRIOR APPLICATION NUMBER: 60/075,945
 PRIOR FILING DATE: February 25, 1998
 PRIOR APPLICATION NUMBER: 60/112,850
 PRIOR FILING DATE: December 16, 1998
 PRIOR APPLICATION NUMBER: 60/113,296
 PRIOR FILING DATE: December 22, 1998
 PRIOR APPLICATION NUMBER: 60/146,222
 PRIOR FILING DATE: December 16, 1998
 PRIOR APPLICATION NUMBER: 60/121,517
 PRIOR FILING DATE: December 22, 1998
 PRIOR APPLICATION NUMBER: 09/1254,311
 PRIOR FILING DATE: March 3, 1999
 PRIOR APPLICATION NUMBER: PCT/US59/12252
 PRIOR FILING DATE: June 22, 1999
 PRIOR APPLICATION NUMBER: PCT/US59/21090
 PRIOR FILING DATE: September 15, 1999
 PRIOR APPLICATION NUMBER: PCT/US59/28409
 PRIOR FILING DATE: No. US2002127643A1ember 30, 1999
 PRIOR APPLICATION NUMBER: PCT/US59/28313
 PRIOR FILING DATE: NO. US2002127643A1ember 30, 1999
 PRIOR APPLICATION NUMBER: PCT/US59/28301
 PRIOR FILING DATE: December 1, 1999
 PRIOR APPLICATION NUMBER: PCT/US59/30095
 PRIOR FILING DATE: December 16, 1999
 PRIOR APPLICATION NUMBER: PCT/US59/28313
 PRIOR FILING DATE: February 11, 2000
 PRIOR APPLICATION NUMBER: PCT/US59/04414
 PRIOR FILING DATE: February 22, 2000
 PRIOR APPLICATION NUMBER: PCT/US59/05841
 PRIOR FILING DATE: March 2, 2000
 PRIOR APPLICATION NUMBER: PCT/US59/05439
 PRIOR FILING DATE: March 30, 2000
 PRIOR APPLICATION NUMBER: PCT/US59/14042
 PRIOR FILING DATE: May 22, 2000
 PRIOR APPLICATION NUMBER: PCT/US59/20710
 PRIOR FILING DATE: July 28, 2000
 PRIOR APPLICATION NUMBER: PCT/US59/32678
 PRIOR FILING DATE: December 1, 2000
 PRIOR APPLICATION NUMBER: PCT/US51/06520
 PRIOR FILING DATE: February 28, 2001
 NUMBER OF SEQ ID NOS: 120
 LENGTH: 431
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-09-945-587-83

Query Match Score 2211; DB 9; Length 431;
 Best Local Similarity 100.0%; Pred. No. 1.3e-179;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 13
 US-09-990-442-515
 Sequence 515, Application US/09990442
 ; Patent No. US20020132252A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi J.
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Baton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Napier, Maty A.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanabe, Colin K.
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE REFERENCE: P2730P1CB
 CURRENT APPLICATION NUMBER: US/09/950,442
 CURRENT FILING DATE: 2001-11-14
 PRIOR APPLICATION NUMBER: 60/049787
 FILING DATE: 1997-06-16
 PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/065186

1 MFPGGEGSLTYLVIICFLTRLASQNCUKKSLEDVVIDQTSISKGIRGNEPYVSTQ 60
 1 MFPGGEGSLTYLVIICFLTRLASQNCUKKSLEDVVIDQTSISKGIRGNEPYVSTQ 60
 61 RUCINSCSTKNSIGKACNIMFEDRKTARQPNCVTIFCNEBACPLPAKGLMSYRII 120
 61 EDICNSCSTKNSIGKACNIMFEDRKTARQPNCVTIFCNEBACPLPAKGLMSYRII 120
 121 TDPSLSTRNLSQELQBDLSLHQGQSAVPLAHHTDYSKPTDISWDTLSQKFGSSD 180
 121 TDPSLSTRNLSQELQBDLSLHQGQSAVPLAHHTDYSKPTDISWDTLSQKFGSSD 180
 181 HLEKLFMDEASAQQLAYKEKHSQSQSSDQETAHLLPENVSALPATAVASHPTSA 240
 181 HLEKLFMDEASAQQLAYKEKHSQSQSSDQETAHLLPENVSALPATAVASHPTSA 240
 241 TPKPATLPTNSVPGTSQPLATVAPPVTVSQPTTILSTVFTRAATLQMMAT 300
 241 TPKPATLPTNSVPGTSQPLATVAPPVTVSQPTTILSTVFTRAATLQMMAT 300
 301 AVLTTFQAPTDSKGSLTIPPTESNLNTNGVNPNTALMSNVSNESTANKTASWGR 360
 301 AVLTTFQAPTDSKGSLTIPPTESNLNTNGVNPNTALMSNVSNESTANKTASWGR 360
 361 EASPGSSQGSQVPGVQGLPPEKWLIGSLFLFGVFLVGLVGLGRILSLSLRKRSRL 420
 361 EASPGSSQGSQVPGVQGLPPEKWLIGSLFLFGVFLVGLVGLGRILSLSLRKRSRL 420
 QY 421 DYLINGIYVDI 431
 Db 421 DYLINGIYVDI 431

PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100 %; Score 2211; DB 9; Length 431; Best Local Similarity 100.0%; Pred. No. 1.3e-179; Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Title of Invention: Secreted and Transmembrane Polypeptides and Nucleic Acid Encoding the Same

Qy 1 MPRGGEGSLTYLIVICFLTRLISASONCLKUSLEDWDVQDQSSLKGIRNEPVUTSQ 60
; Db 1 MPRGGEGSLTYLIVICFLTRLISASONCLKUSLEDWDVQDQSSLKGIRNEPVUTSQ 60
; Qy 61 EDCINSGCCSTKNSIGDKACNLMIFDTRKTRQNCYLFCCNEACPLPKAGLMSYRII 120
; Db 61 EDCINSGCCSTKNSIGDKACNLMIFDTRKTRQNCYLFCCNEACPLPKAGLMSYRII 120
; Qy 121 TDFPSLTRNLPSQELPOEDSLHGPQSOAVPLAHHTDYSKPTDLSWDRDLSOKCGSD 180
; Db 121 TDFPSLTRNLPSQELPOEDSLHGPQSOAVPLAHHTDYSKPTDLSWDRDLSOKCGSD 180
; Qy 181 HLEKLFKMDDEASAQQLAYKEKGHSQSSQFSSDQIAHLPENVALPATVAVASPHITA 240
; Db 181 HLEKLFKMDDEASAQQLAYKEKGHSQSSQFSSDQIAHLPENVALPATVAVASPHITA 240
; Qy 241 TPKPATLPLPTVNASVTPSGTSPOLATTAPPVVTQSOPTTISTVTRAATLQAMATT 300
; Db 241 TPKPATLPLPTVNASVTPSGTSPOLATTAPPVVTQSOPTTISTVTRAATLQAMATT 300
; Qy 301 AVLTTEFOAPTDPSKGSLTEIPTEISULNTGNGVNPNTAAMSNTESSTNKTASWGR 360
; Db 301 AVLTTEFOAPTDPSKGSLTEIPTEISULNTGNGVNPNTAAMSNTESSTNKTASWGR 360
; Qy 361 EASPGSSSQGSVPGQGLPFRKWLIGLISLFGVLFVIGVJULGRILSESLRRKYSRL 420
; Db 361 EASPGSSSQGSVPGQGLPFRKWLIGLISLFGVLFVIGVJULGRILSESLRRKYSRL 420
; Qy 421 DYLINGIYVDI 431
; Db 421 DYLINGIYVDI 431

RESULT 14
US-09-991-163-515
; Sequence 515, Application US/09991163
; Patent No. US20020132253A1
; GENERAL INFORMATION:
; APPLICANT: Ahkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Andrej
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin

APPLICANT: FILE REFERENCE: P2730PC17
; CURRENT APPLICATION NUMBER: US/09/991.163
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-01-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088033
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088326
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088167
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088202
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088212
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088217
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: 60/088655
; PRIOR FILING DATE: 1998-06-09
; PRIOR APPLICATION NUMBER: 60/088734
; PRIOR FILING DATE: 1998-06-10
; PRIOR APPLICATION NUMBER: 60/088738

PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088742
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088810
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088824
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088826
 PRIOR FILING DATE: 1998-06-10
 PRIOR APPLICATION NUMBER: 60/088858
 PRIOR FILING DATE: 1998-06-11
 PRIOR APPLICATION NUMBER: 60/088861
 PRIOR FILING DATE: 1998-06-11
 PRIOR APPLICATION NUMBER: 60/088876
 PRIOR FILING DATE: 1998-06-11
 PRIOR APPLICATION NUMBER: 60/089105
 PRIOR FILING DATE: 1998-06-12
 PRIOR APPLICATION NUMBER: 60/089440
 PRIOR FILING DATE: 1998-06-16
 PRIOR APPLICATION NUMBER: 60/089512
 PRIOR FILING DATE: 1998-06-16
 PRIOR APPLICATION NUMBER: 60/089514
 PRIOR FILING DATE: 1998-06-16
 PRIOR APPLICATION NUMBER: 60/089532
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089538
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089598
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089599
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089600
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089653
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089801
 PRIOR FILING DATE: 1998-06-18
 PRIOR APPLICATION NUMBER: 60/089907
 PRIOR FILING DATE: 1998-06-18
 PRIOR APPLICATION NUMBER: 60/089908
 PRIOR FILING DATE: 1998-06-18
 PRIOR APPLICATION NUMBER: 60/089947
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089948
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/089952
 PRIOR FILING DATE: 1998-06-19
 PRIOR APPLICATION NUMBER: 60/090246
 PRIOR FILING DATE: 1998-06-22
 PRIOR APPLICATION NUMBER: 60/090252
 PRIOR FILING DATE: 1998-06-22
 PRIOR APPLICATION NUMBER: 60/090254
 PRIOR FILING DATE: 1998-06-22
 PRIOR APPLICATION NUMBER: 60/090349
 PRIOR FILING DATE: 1998-06-23
 PRIOR APPLICATION NUMBER: 60/090355
 PRIOR FILING DATE: 1998-06-23
 PRIOR APPLICATION NUMBER: 60/090429
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090431
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090435
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090444
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090445
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090472
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090535
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090540
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090542
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090557
 PRIOR FILING DATE: 1998-06-24
 PRIOR APPLICATION NUMBER: 60/090676
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090678
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090690
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090694
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/090695
 PRIOR FILING DATE: 1998-06-26
 PRIOR APPLICATION NUMBER: 60/091360
 PRIOR FILING DATE: 1998-06-25
 PRIOR APPLICATION NUMBER: 60/091478
 PRIOR FILING DATE: 1998-06-26
 PRIOR APPLICATION NUMBER: 60/091544
 PRIOR FILING DATE: 1998-07-01
 PRIOR APPLICATION NUMBER: 60/091519
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091626
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091633
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091978
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 2211; DB 9; Length 431;
 Best Local Similarity 100.0%; Pred. No. 1; 3e-179; Mismatches 0; Indels 0; Gaps 0;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MFFGSEGGSLTYTLVIVCFLTRLUSASQNLKKSLEDDVQDLSLSKGTRGNRNPVYTSQ 60
 1 MFFGSEGGSLTYTLVIVCFLTRLUSASQNLKKSLEDDVQDLSLSKGTRGNRNPVYTSQ 60
 Db 61 EDCINSCSCSYNSDKAQNLIMIDTRKAPRQPCYLFCCPNEBACPKPAKGMYSR 120
 61 EDCINSCSCSYNSDKAQNLIMIDTRKAPRQPCYLFCCPNEBACPKPAKGMYSR 120
 Db 121 TDFPSLTRNUPSQELPQEDSLLHQFSQAVTPLAHHHDYSKPEDIQRTLSQKFGSSD 180
 121 TDFPSLTRNUPSQELPQEDSLLHQFSQAVTPLAHHHDYSKPEDIQRTLSQKFGSSD 180
 Db 121 TDFPSLTRNUPSQELPQEDSLLHQFSQAVTPLAHHHDYSKPEDIQRTLSQKFGSSD 180
 121 TDFPSLTRNUPSQELPQEDSLLHQFSQAVTPLAHHHDYSKPEDIQRTLSQKFGSSD 180
 181 HLEKLFKMDERSAQOLAYKEKGHSQSSQFSSDQBIAHLLPENVSALPATVAVASPTSA 240
 181 HLEKLFKMDERSAQOLAYKEKGHSQSSQFSSDQBIAHLLPENVSALPATVAVASPTSA 240
 Db 241 TPKPPTLPLPNASVPSGTSQPOLATTAPVUTTSOPPTLISVFRRAATQAMATT 300
 241 TPKPPTLPLPNASVPSGTSQPOLATTAPVUTTSOPPTLISVFRRAATQAMATT 300
 Db 301 AVLTTFQAPTDKSQSLTIPPTESNLNTGNYNPTALSNVESTMNKTAWSGR 360
 301 AVLTTFQAPTDKSQSLTIPPTESNLNTGNYNPTALSNVESTMNKTAWSGR 360
 Db 301 AVLTTFQAPTDKSQSLTIPPTESNLNTGNYNPTALSNVESTMNKTAWSGR 360
 361 EASPGSSSQQSVPENOYGLPPEKMLGILFGYLFLVIGLVIGRISSESLRKRSRL 420
 361 EASPGSSSQQSVPENOYGLPPEKMLGILFGYLFLVIGLVIGRISSESLRKRSRL 420
 Db 361 EASPGSSSQQSVPENOYGLPPEKMLGILFGYLFLVIGLVIGRISSESLRKRSRL 420
 Qy 421 DYLYNGIYVUD 431

RESULT 15
 US-09-945-015-83
 Sequence 83, Application US/09945015
 ;
 Patent No. US2002132768A1
 GENERAL INFORMATION:
 ;
 APPLICANT: Baker, Kevin
 APPLICANT: Botstein, David
 APPLICANT: Eaton, Dan
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Garritsen, Mary
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul
 APPLICANT: Grimaldi, Christopher
 APPLICANT: Gurney, Austin
 APPLICANT: Hillan, Kenneth
 APPLICANT: Kjelavik, Ivar
 APPLICANT: Napier, Mary
 APPLICANT: Roy, Margaret
 APPLICANT: Tumas, Daniel
 APPLICANT: Wood, William
 TITLE OF INVENTION: SECURED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLBIC
 TITLE OF INVENTION: ACIDS ENCODING THE SAME
 FILE REFERENCE: P2248P1C1
 CURRENT APPLICATION NUMBER: US/09/945,015
 CURRENT FILING DATE: 2001-09-26
 PRIOR APPLICATION NUMBER: 09/866,028
 PRIOR FILING DATE: 2001-05-25
 PRIOR APPLICATION NUMBER: 60/067,411
 PRIOR FILING DATE: December 3, 1997
 PRIOR APPLICATION NUMBER: 60/069,334
 PRIOR FILING DATE: December 11, 1997
 PRIOR APPLICATION NUMBER: 60/069,278
 PRIOR FILING DATE: December 11, 1997
 PRIOR APPLICATION NUMBER: 60/069,425
 PRIOR FILING DATE: December 12, 1997
 PRIOR APPLICATION NUMBER: 60/069,696
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 60/069,694
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 60/069,702
 PRIOR FILING DATE: December 16, 1997
 PRIOR APPLICATION NUMBER: 60/069,870
 PRIOR FILING DATE: December 17, 1997
 PRIOR APPLICATION NUMBER: 60/069,873
 PRIOR FILING DATE: December 17, 1997
 PRIOR APPLICATION NUMBER: 60/068,017
 PRIOR FILING DATE: December 18, 1997
 PRIOR APPLICATION NUMBER: 60/070,440
 PRIOR FILING DATE: January 5, 1998
 PRIOR APPLICATION NUMBER: 60/074,086
 PRIOR FILING DATE: February 9, 1998
 PRIOR APPLICATION NUMBER: 60/074,092
 PRIOR FILING DATE: February 9, 1998
 PRIOR APPLICATION NUMBER: 60/075,945
 PRIOR FILING DATE: February 25, 1998
 PRIOR APPLICATION NUMBER: 60/112,850
 PRIOR FILING DATE: December 16, 1998
 PRIOR APPLICATION NUMBER: 60/113,296
 PRIOR FILING DATE: December 22, 1998
 PRIOR APPLICATION NUMBER: 60/146,222
 PRIOR FILING DATE: July 28, 1999
 PRIOR APPLICATION NUMBER: PCT/US98/19330
 PRIOR FILING DATE: September 16, 1998
 PRIOR APPLICATION NUMBER: PCT/US98/25108
 PRIOR FILING DATE: December 1, 1998
 PRIOR APPLICATION NUMBER: 09/216,031
 PRIOR FILING DATE: December 16, 1998
 PRIOR FILING DATE: December 22, 1998
 PRIOR APPLICATION NUMBER: 09/218,517
 PRIOR FILING DATE: March 3, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/12252
 PRIOR FILING DATE: June 22, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/21090
 PRIOR FILING DATE: September 15, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/28095
 PRIOR FILING DATE: NO. US2002132768A1ember 30, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/28313
 PRIOR FILING DATE: NO. US2002132768A1ember 30, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/28301
 PRIOR FILING DATE: December 1, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/30095
 PRIOR FILING DATE: December 16, 1999
 PRIOR APPLICATION NUMBER: PCT/US99/03565
 PRIOR FILING DATE: February 11, 2000
 PRIOR APPLICATION NUMBER: PCT/US99/04414
 PRIOR FILING DATE: February 22, 2000
 PRIOR APPLICATION NUMBER: PCT/US0/05841
 PRIOR FILING DATE: March 2, 2000
 PRIOR APPLICATION NUMBER: PCT/US0/32678
 PRIOR FILING DATE: December 1, 2000
 PRIOR FILING DATE: March 30, 2000
 PRIOR APPLICATION NUMBER: PCT/US0/14042
 PRIOR FILING DATE: May 22, 2000
 PRIOR APPLICATION NUMBER: PCT/US0/20710
 PRIOR FILING DATE: July 28, 2000
 PRIOR APPLICATION NUMBER: PCT/US0/08439
 PRIOR FILING DATE: February 28, 2001
 PRIOR APPLICATION NUMBER: PCT/US1/06520
 PRIOR FILING DATE: February 28, 2001
 NUMBER OF SEQ ID NOS: 120
 SEQ ID NO 83
 LENGTH: 431
 TYPE: PRT
 ORGANISM: Homo Sapien
 US-09-945-015-83
 Query Match 100.0%; Score 2211; DB 9; Length 431;
 Best Local Similarity 100.0%; Pred. No. 1.3e-179;
 Matches 431; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 MFFGGECSLLTYTIVICFLTLULSASONCLKSLEDYVTDISSLGKGIRGEPVYSTQ 60
 Db 1 MFFGGECSLLTYTIVICFLTLULSASONCLKSLEDYVTDISSLGKGIRGEPVYSTQ 60
 Qy 61 EDCINSCSTKNSGDKACNLMDFTKTRARPNCYLFFCPHEEACPLKPAKGLMSRII 120
 Db 61 EDCINSCSTKNSGDKACNLMDFTKTRARPNCYLFFCPHEEACPLKPAKGLMSRII 120
 Qy 121 TDFPSLTLRNLPSQELPQEDSLHGFQSOAVTPLAHHTDYSKPTDSWRDTLSQKFGSSD 180
 Db 121 TDFPSLTLRNLPSQELPQEDSLHGFQSOAVTPLAHHTDYSKPTDSWRDTLSQKFGSSD 180
 Qy 181 HLEKLFKDEAQASQLLAYKEKHSQSOFSQDEIAHLPENSAQPAVATVASHPTSA 240
 Db 181 HLEKLFKDEAQASQLLAYKEKHSQSOFSQDEIAHLPENSAQPAVATVASHPTSA 240
 Qy 241 TPKPATLPTNSVTPSGTSQQLATTAPEVPTVTSOPTNISTVTRAATLQATT 300
 Db 241 TPKPATLPTNSVTPSGTSQQLATTAPEVPTVTSOPTNISTVTRAATLQATT 300
 Qy 301 A VLTTFQAPTSKGSLTIPTEISNLTNTGVNTAALMSUNVSSTMMKTAWSBGR 360
 Db 301 A VLTTFQAPTSKGSLTIPTEISNLTNTGVNTAALMSUNVSSTMMKTAWSBGR 360
 Qy 361 EASPGSSQGSQYQVQYGLPPEKWLIGSLFLGVLFVGLVGLRILSESURKRSRL 420
 Db 361 EASPGSSQGSQYQVQYGLPPEKWLIGSLFLGVLFVGLVGLRILSESURKRSRL 420
 Qy 421 DYLINGYVDI 431

Db 421 DYLINGIYVDI 431

Search completed: April 28, 2004, 13:01:26
Job time : 50 SECs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 28, 2004, 12:55:48 ; Search time 21 Seconds
(Without alignments)
Sequence: 1 MFFGEGSITYLIVICFLT.....LRRKRYSLDYLINGIVVDI 431
Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283366 seqs, 96191566 residues
Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR:78:*

1: pir1:*

2: pir2:*

3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ALIGNMENTS

RESULT 1

129634

hypothetical protein, Caenorhabditis elegans

C;Species: Caenorhabditis elegans
C;Date: 11-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 17-Mar-2000

C;Accession: T29634
R;Nhan, M.; Hawkins, J.

Submitted to the EMBL Data Library, March 1996

A;Description: The sequence of C. elegans cosmid C12D12.

A;Reference number: Z20656

A;Accession: T29634

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-825 <NRA>

A;Cross-references: BBL:US1998; PIDN:AAA96080.1; GSPDB:GN00028; CESP:C12D12

A;Experimental source: strain Bristol N2; clone C12D12

C;Genetics:

A;Gene: CESP:C12D12.1

A;Introns: 48/1; 86/3; 137/1; 172/3; 224/3; 253/1; 287/3; 328/2; 454/1; 487/3; 692/1

C;Superfamily: Epstein-Barr virus membrane antigen gp350

Query Match

7.9% ; Score 174.5; DB 2; Length 825;

Best Local Similarity

23.7% ; Pred. No. 0.00051;

Matches

93; Conservative

40; Mismatches

144; Indels

115; Gaps

17;

Ov

52

NEPVYVSTQED-----CINSCSTKNSIGDGRACNLIMFDTRK-----

88

Db

363

NTPFPTTRNANDTIEIVCTVILCSSITIDGVK--IQTDTKVQKVDDISYVIFTNTIAN

419

Qy

89

-----TARQNCYLUFFC-----PNEBACPKP--AKGIMSY--RITDF

123

hypothetical protein

glycoprotein X

chitinase (EC 3.2.

mucin 2 precursor,

mucin MUC5B

trach

hypothetical prote

probable membrane

mucin FIM-C-1 - Af

serine protease

mucin 6, gastric (

probable membrane

protein 17

protein -

mucin 7 precursor,

melanoma antigen h

membrane glycoprot

membrane glycoprot

probable membrane

hypothetical prote

mucin - rat

hypothetical prote

LDL receptor 2 pre

ascites sialoglyco

gastric mucin (clu

hypothetical prote

probable membrane

hypothetical prote

apomucin precursor

mucin JUN7 - human

hypothetical prote

mucin JER57 - huma

probable membrane

floculable prote

hypothetical prote

exo-alpha-sialidase

a-agglutinin core

probable membrane

hypothetical prote

hypothetical prote

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

probable membrane

mucin 5AC - human

hypothetical prote

mucin JER57 - huma

probable membrane

mucin JER57 - huma

A;Molecule type: DNA	Db	142 DOKQTMUWYNGGCSETSIQVQNSSDS-TTWLITSDWMWNGANALINLLKTPN-ACP	197
A;Residues: 1-534 <WIL>	Qy	108 IPKAKGLMSYRILTDPESLT-:RNLPSQLEPQEDSLHLH3GFSQAVTPLAHHTDYSKP	163
A;Cross-references: EMBL:AL033534; PIDN:CAA22127_1; GSPDB:GN00067; SPDB:SPBC215.13	Db	198 QOSMLWNTNCNLNTTSSSTMLSSTTLTETTETRESSSTS-TQTTIPSTEPTTITP	256
A;Experimental source: strain 972h-; cosmid c215	C	C;Genetics:	
A;Gene: SPDB:SPBC215.13	C	A;Map position: 2	
C;Superfamily: pig submaxillary mucin			
Query Match 7.0%; Score 154; DB 2; Length 534;			
Best Local Similarity 21.1%; Pred. No. 0.071; Mismatches 86; Conservative 79; MisMatches 13; Indels 60; Gaps 13;			
Matches 86; Conservative 79; MisMatches 13; Indels 60; Gaps 13;			
Qy 9 LTYTIVLII----CEFLRLASQNLKKSEEDVV-IDIQSSLK--GIR----- 50	Qy	224 SALPATAVAVASPHHTSATPKATLPLTNASTPSGTSQPOQATTAAPPVTVTSQPTTLI	283
5 LIFSLICVFCISNIFTQAFVLHQIYGNSSFTKISINQLEGRLDSQELQRQEBIRYGRAA 64	Db	266 -----VQKRTSEDKPSSTTIVPISASSESSSSTSSP-MATSSSSTTSSPAST-	314
Qy 51 --SNEPVEY-----TSTQDCINSCSCTRNISGKAGACNLIMFDTRKTAQPNCPVIFFCP- 101	Qy	284 STVTFRAATQAMATTAV-LTTFCQAPTSGKSLETIPFHSISNLNTLGNVYNTAL	341
65 ETGGTPYGYATPSSPSIFSESATPSETNSYSPVSYSDATOSLPSSTSFRSP 124	Db	315 STV--PESSTVQSTPTGTLTSLNEOSTSTSSGGHSTSTFGTSE-TPESTDFTATST	371
Db 102 -----NEEACPKPAKGLMSYRILTDPESLTANLPLQELPQEDSLHLH3GFSQAVTPL 153	Qy	342 S -----MSAVESSTMNKIASWEGREASGSSQGCVPEQYGLPP--ERKLL 386	
Db 125 SSEYTPSSSESSSLDPS--VSSAIPSPSTSVEVSISSSLSSSDPLTSFTSLLS-- 180	Db	372 SSSDSSTQSNQTAQTSIENGSTTNTFSPATPTTYNWPTGGTWWML 426	
Qy 154 AHRRHTDYSKPTDTSWRDTLSQKFGSSSDHLEKLFKMDDEASQNLAYKEKGHSQSSQFSDQ 213		RESULT 7	
181 --STSSQD--SVSSTSSTFSSAAPTSTSSYLUSSSVVSSSSSPSSSSSTTSS 234		VGBCX1	
Qy 214 EIAHLLPENVALPATAVAVASPHHTSATPKATLPLTNASTPSGTSQPOQATTAAPPV 273		glycoprotein X precursor - equine herpesvirus 1 (strain Ab4p)	
235 LSTRSIIPSPSTSSSSSTSSLSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS 294		C;Species: equine herpesvirus 1	
274 VTQOPTTILSTVTR-----ATLQAMATTAVLTTT-QAPTDKSQLEBTFTEIS 326		A;Note: host Equus caballus (domestic horse)	
Qy 295 SSSSSPSTSSTSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS 352		C;Date: 30-Sep-1992 #sequence_revision 30-Sep-1992 #text_change 16-Jul-1999	
Db 327 NLTNT-----GNYNPTALSMNVESTMNKIASWEGREASPSS 368		C;Accession: H6802	
Qy 353 SSFSSTTSSKSSSSFSSTSSSSTSSSITSSRSPASSHS 400		R;Teiford, B.A.R.; Watson, M.S.; McBride, K.; Davison, A.J.	
Db		submitted to GenBank, March 1992	
R;Matthews, P.		A;Description: The DNA sequence of equine herpesvirus-1.	
A;Reference number: Z21389		A;Reference number: A36805	
A;Accession: H6802		A;Molecule type: DNA	
A;Status: preliminary; translated from GB/EMBL/DDJB		A;Residues: 1-197 <TBL>	
A;Residues: 1-1251 <WIL>		A;Cross-references: GB:MB6664; NIDG33091; PIDN:AB0206.1; PID:9330862	
A;Cross-references: EMBL:Z47072; PIDN:CAA87369.1; GSPDB:GN00020; CESP:F26C11.3		R;Teiford, B.A.R.; Watson, M.S.; McBride, K.; Davison, A.J.	
A;Experimental source: clone F26C11		Virology 189, 304-316, 1992	
C;Genetics:		A;Title: The DNA sequence of equine herpesvirus-1.	
A;Gene: CESP:F26C11.3		A;Reference number: A41831; PMID:9295566; PMID:1318605	
A;Map position: 2		A;Contents: annotation; Possible protein-coding frames	
A;Introns: 24/1; 111/1; 208/1; 272/1; 380/1; 394/1; 485/3; 586/3; 630/3; 669/3; 713/3; 7		A;Note: neither amino acid nor nucleotide sequence is given	
Query Match 6.9%; Score 151.5; DB 2; Length 1251;		C;Genetics:	
Best Local Similarity 22.4%; Pred. No. 0.031; Mismatches 93; Conservative 46; MisMatches 161; Indels 115; Gaps 17;		A;Gene: 71	
Qy 17 CHFLRLISASQNLKSLRWDVITDQSSLSKGIRNEPVVISTQDCT----- 64	Qy	C;Superfamily: equine herpesvirus glycoprotein X; equine herpesvirus 1 glycoprotein homology <EHG>	
82 CDPVLTSSSTETGKFLREFRFFVSSABIASTSLPTTSPSLNICYWLESEPSNFEWI 141	Db	F;1-227/Domain: signal sequence #status predicted <SIG>	
Qy 65 -----NSCSTKNI---SGDKACNLIMITKTRKARQPNVY--LFFC-PNEEACP 107	Qy	F;23-465/Region: serine/heoine-rich	
Qy 158 TDYSPKPDIDSRDTLSQKFGSSSDHLEKLFKMDDEASQNLAYKEKGHSQSSQFSDQELAH 217	Db	F;489-797/Domain: equine herpesvirus 1 glycoprotein homology <EHG>	
29 TSSSTSGSQQSTSSGGTNTSSSPPTSTTSSPSSSTTSSSTA 88		F;760-790/Domain: transmembrane #status predicted <TMN>	
Qy 218 LPENVALPATAVAVASPHHTSATPKATLPLTNASTPSGTSQPOQATTAAPPV----- 256		F;590/Binding site: carbohydrate (asn) (covalent) #status predicted	
89 SAPSTASSTTSPSTSTETTTPAFTTPTTAAPTAAATTAA 148		Query Match 6.8%; Score 150.5; DB 1; Length 797;	
Qy 257 --SGTSQPOQAT-TAPPVTTSPQPTTSLTVFRAATQAMATTAVLTTFOAPTD 312	Qy	Best Local Similarity 24.3%; Pred. No. 0.02; Mismatches 58; Conservative 25; MisMatches 131; Indels 25; Gaps 2;	
149 ATATATSTPTTTPISTTTATTATTATTATTAA 208	Db	Matches 58; Conservative 25; MisMatches 131; Indels 25; Gaps 2;	
Qy 313 SKGSLESTIPFIBSNTLNTGCVNNTALSMNVESTMNTKIASWEGREASPGSSQGS 371			

RESULT 8

chitinase (EC 3.2.1.14) 2 precursor - Coccidioides immitis C;Species: Coccidioides immitis C;Date: 12-Mar-1995 #sequence_revision 19-Apr-1996 #text_change 13-Nov-1998 C;Accession: JC4565 C;Accession: JC4565 N;Alternate names: chitin hydrolase homolog; CTS2 protein R;Pisko, E.J.; Kirkland, T.N.; Cole, G.T. Gene 167, 173-177, 1995

A;Title: Isolation and characterization of two chitinase-encoding genes (cts1, cts2) from A;Reference number: JC4565; MUID:96144270; PMID:566773 A;Molecule type: mRNA A;Residues: 1-860 <PIS> A;Cross-references: GB:L41662 C;Genetics: C;Gene: cts2 A;Introns: 35/3; 181/2 C;Keywords: glycoprotein; glycosidase; hydrolase; polysaccharide degradation F;1-229;Domain: signal sequence #status predicted <SIG> F;23-867;Product: chitinase 2 #status predicted <MAT> F;346-880;Region: serine/threonine-rich F;90,657/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match Best Local Similarity 6 8%; Score 150.5; DB 2; Length 860; Matches 78; Conservative 49; Mismatches 141; Indels 59; Gaps 12; QY 65 NSCCCTKN-1SGDKACNLMPDFTRKTAQ--PNCYLFPCPNEACPLPKAGLMSYRI 120 Db 235 NPSCCKRKWVTPNPKVYVTDWVVKYTKSGNPLAKLFI----- 273 QY 121 TDFFPSLTRNIPSQE-LPQEDNSLIGQFSQAV-TPIAHHHHDYKPTDISRDTSQ-K 175 Db 274 -----GLPASKAAKAKEDYLTPGEATKVSTWAKYKPTFGEM-MWMBATASENNK 323 QY 176 FGSSPHL---EKLFQND---EASQOLLAYKEKGHSQSSQSSDQEBAHLIPENPSALPA 228 Db 324 LGGLPYADIMKEVLLRCDPDPPTSTVTSASTSFRQSTSSWTKTLASTTSPSS 383 QY 229 TVAVASPHTSATPKATLTLTNAVTPSGTSQPOQATTAPVPTVTSQOPTLISVFT 288 Db 384 TVSPSSTMQTISTGATSIETVTRASCEPPSPTISRSASREPVTRSQEPSPITIS-T 440 QY 289 RAA---TQAMATTAFLVLTFOAFTDSKQSLETIIPTEISNLNTUNGTGNVNPALMS 344 Db 441 RASASBTVTTRSQEPPTTISTWSASSTTSSQDOSPSTISTKSQPTG---TVTTRS 495 QY 345 NVESTSMANKTASWEERASPOSSSGS 371 Db 496 QDLPTTISTRSRPEETETATKSQGS 522

RESULT 9

A43932 mucin 2 precursor, intestinal - human (fragments) N;Alternate names: mucin SMUC-41 C;Species: Homo sapiens (man) C;Date: 10-Mar-1993 #sequence revision 12-Apr-1996 #text_change 05-Nov-1999 C;Accession: A49963; A45106; B45105; A13932; B33032; A61257; PQ0328; PQ0329 R;Gum Jr., J.R.; Hicks, J.W.; Toribara, N.W.; Sidoiki, B.; Kim, Y.S. J. Biol. Chem. 269, 2440-2446, 1994

A;Title: Molecular cloning of human intestinal mucin (MUC2) cDNA. Identification of the A;Reference number: A49963; MUID:94132002; PMID:8300571 A;Molecule type: mRNA A;Residues: 1-639 <GUL> A;Cross-references: GB:L21998 R;Gum Jr., J.R.; Hicks, J.W.; Toribara, N.W.; Rothe, E.M.; Lagace, R.E.; Kim, Y.S. J. Biol. Chem. 267, 2135-2139, 1992 A;Title: The human MUC2 intestinal mucin has cysteine-rich subdomains located both upstream and downstream of the mucin domain A;Reference number: A45106; MUID:33016075; PMID:1400449 A;Accession: A5106 A;Status: not compared with conceptual translation A;Molecule type: mRNA A;Residues: 625-1895 <GUL> A;Cross-references: GB:W04131; NID:9186395; PID:AAA59163.1; PID:9186396 A;Note: sequence extracted from NCBI backbone (NCBIP:116706) A;Experimental source: colon A;Note: sequence extracted from NCBI backbone (NCBIP:116698) A;Status: not compared with conceptual translation A;Molecule type: mRNA A;Residues: 207-302 <GUL> A;Cross-references: GB:W04132; NID:9186397; PID:AAA59164.1; PID:9186398 A;Experimental source: colon A;Note: sequence extracted from NCBI backbone (NCBIP:116698) A;Cross-references: GB:W04027; NID:918863; PID:AAA59165.1; PID:918864 A;Note: sequence inconsistent with the nucleotide translation A;Residues: 133-1350, 'L', 1352-1411, 'S', 1413-1448, 'P', 1450-1503, 'T', 1505-1515 <TOR> A;Cross-references: GB:W04027; NID:918863; PID:AAA59165.1; PID:918864 R;Gum, J.R.; Byrd, J.C.; Hicks, J.W.; Toribara, N.W.; Lamport, D.T.A.; Kim, Y.S. J. Biol. Chem. 264, 6480-6487, 1989 A;Title: Molecular cloning of human intestinal mucin cDNAs. Sequence analysis and evidence for alternative splicing A;Reference number: A33532; MUID:89197556; PMID:2703501 A;Accession: BA33532 A;Molecule type: mRNA A;Residues: 196-2193 <GU4> A;Cross-references: GB:W24045; NID:9188873; PID:AAA36334.1; PID:9188874 A;Experimental source: intestine R;Jahy, B.H.; Gallup, M.W.; Yam, P.S.; Gum, J.R.; Kim, Y.S.; Babbaum, C.B. J. Clin. Invest. 87, 77-82, 1991 A;Title: Human bronchus and intestine express the same mucin gene. A;Reference number: A61257; MUID:91086481; PMID:1985113 A;Accession: A1257 A;Status: not compared with conceptual translation A;Molecule type: mRNA A;Residues: 17, 1928-1948 'TTS', 1952-1954 <JAN> A;Experimental source: bronchus R;Xu, G.; Huan, L.; Khatri, I.; Sajjan, U.S.; McCool, D.; Wang, D.; Jones, C.; Forstmann, Biochem. Biophys. Res. Commun. 183, 821-828, 1992 A;Title: Human intestinal mucin-1-like protein (MLP) is homologous with rat MLP in the C-terminal region A;Reference number: PQ0328; MUID:9198477; PMID:1550588 A;Accession: PQ0328 A;Molecule type: mRNA A;Residues: 2338-2468 <XUG> A;Cross-references: GB:MG6523 A;Experimental source: small intestine A;Accession: PQ0329 A;Molecule type: protein A;Residues: 2338-2342, 'K', 2344-2354 <XUG1> C;Genetics: C;Gene: GDB:MUC2 A;Cross-references: GDB:120203; OMIM:158370 A;Map position: 11p15.5-11p15.5 C;Superfamily: von Willebrand factor; von Willebrand factor type A repeat homology; von Willebrand factor repeat C;Keywords: glycoprotein; intestine; tandem repeat

Query Match Best Local Similarity 6 8%; Score 149.5; DB 2; Length 3020; Matches 43; Conservative 34.1%; Mismatches 52; Indels 19; Gaps 4; QY 220 PENVSLAPATVAVASPHTSATPKATL-LPTNASVTP-SGTSOPOLATAPPVNTVT 275 Db 1511 PASTTLPPTTSPSPPTTTPPTTTPSPPTTIPPTPSTTLPPTTSPSPPTT 1570

Db	1345	SCISSSSSSSTIASPLSISPT-TVDTSWLPPTTSATLTCDQOEVSTICNSN	1403
Qy	340	--ALSMNVESSTMNKTASWEGREAPCSSS	368
Db	1404	CDDVTSSTATTPPSIVTDTMCTGSECQKTISS	1435
RESULT 13			
A45155	mucin FIM-C.1 - African clawed frog (fragment)		
C;Species	Xenopus laevis (African clawed frog)		
C;Date	26-May-1994 #sequence_revision 26-May-1994 #text_change 21-Jul-2000		
C;Accession	A45155		
R;Hauer, F.; Hoffmann, W.	J. Biol. Chem. 267, 24620-24624, 1992		
R;Title	P-domains as shuffled cysteine-rich modules in integumentary mucin C.1 (FIM-C.1)		
A;Reference	number: A45155; MUID:93077556; PMID:1447205		
A;Accession	A45155		
A;Status	preliminary		
A;Molecule type	mRNA		
A;Residues	1-662 <HAU>		
A;Cross-references	GBI:102115; NID:9214147; PIDN:AAA74725.1; PID:9951460		
C;Superfamily	trefoil homology		
F;162-202/Domain	trefoil homology <TRF1>		
F;307-394/Domain	trefoil homology <TRF2>		
F;354-594/Domain	trefoil homology <TRF3>		
F;526-566/Domain	trefoil homology <TRF4>		
F;573-613/Domain	trefoil homology <TRF5>		
F;621-661/Domain	trefoil homology <TRF6>		
Query Match 6.6%; Score 147; DB 2; Length 662;			
Matches	49; Conservative	19; Mismatches	78; Indels 36; Gaps 5;
Qy	228	ATVAVASPHHTSAMPKATPLIPTNSVTSQTSRQPLARTAPPVTT-----VTSOPP	279
Db	394	STSQVAAATKTT-TPPTTTTPPTTTKATTPPTTTTPPTTTTPPTTTKATTPPTTT	451
Qy	280	TTLISTVFRAAATIQLQAMATTAVVTTTQAPTDKGSLETIPFEEISNLNTQVNVNPT	339
Db	452	TTPTTTKATTTTPTTTTPTTTTPTTTTPTTTTPTTTKATTTT-----PT	506
Qy	340	ALNSNVSNTMNKVAS-----WEGNEASPSSQSVPEHQ---YG	378
Db	507	TTTTTTKATTTTSGCKMPESSKRAADCQGPGTIESQRSKGCFCDFSSIPQWKCFYS	566
Qy	379	LP 380	
Db	567	LP 568	
RESULT 14			
A47547	Serine protease stubble-stubbloid (BCC 3.4.21.-) - fruit fly (Drosophila melanogaster)		
C;Species	Drosophila melanogaster		
C;Date	10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999		
C;Accession	A47547		
R;Appel, L.F.; Prout, M.; Abu-Shumays, R.; Hammonds, A.; Garbe, J.C.; Fristrom, D.; Fristrom, Proc. Natl. Acad. Sci. U.S.A. 90, 4937-4941, 1993	Title: The Drosophila Stubble-stubbloid gene encodes an apparent transmembrane serine		
A;Title	A;Reference number: A47547; MUID:93281671; PMID:7685111		
A;Status	preliminary		
A;Molecule type	mRNA		
A;Cross-references	GBI:111451; NID:9158511; PIDN:AAA28918.1; PID:9158512		
C;Genetics	C;Gene: Sb-sbd		
A;Cross-references	FlyBase:FBgn003319		
C;Superfamily	serine protease stubble-stubbloid; trypsin homology		
C;Keywords	hydrolase; serine protease; transmembrane protein		
F;61-77/Domain	transmembrane #stubs predicted <TMN>		
RESULT 15			
B46629	mucin 6, gastric (3-repeat clone) - human (fragment)		
C;Species	Homo sapiens (man)		
C;Date	21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999		
C;Accession	B46629		
R;Toribara, N.W.; Robertson, A.M.; Ho, S.B.; Kuo, W.L.; Gum, E.; Hicks, J.W.; Gum Jr., J. Biol. Chem. 268, 5879-5885, 1993	Title: Human gastric mucin. Identification of a unique species by expression cloning		
A;Reference number	A46629; MUID:93194895; PMID:7680550		
A;Accession	B46629		
A;Status	preliminary		
A;Molecule type	mRNA		
A;Residues	1-505 <TOR>		
A;Cross-references	GBI:107518; NID:9292045; PIDN:AA61945.1; PID:9292046		
A;Experimental source	stomach		
A;Note	sequence extracted from NCBI backbone (NCBIN 128397, NCBIPI:128399)		
C;Genetics	C;Gene: MUC6		
A;Cross-references	GDB:134734; OMIM:158374		
A;Map position	11p15.5-11p15.5		
C;Keywords	glycoprotein		
Query Match 6.5%; Score 144.5; DB 2; Length 505;			
Matches	78; Conservative	71; Mismatches	101; Indels 11; Gaps 15;
Qy	89	TARQNCYUFRCPNBEACPLKKPAKLMSTRIITPPSLTRNLPQELRQEDSLH-GQFS	147
Db	116	SSRPPPFTHSPRGSSPFS-STGPMT--ATSEFT-TTYTPPSLQPTTLPVPPFS	170
Qy	148	QA-VTPLASHHHTDVKPTDTSWRDUTLSQKFGSSDHLEKLFKMDDEASAQLLAYKEKGHSOS	206
Db	171	TSLVTPITH--TVTPT-----	188
Qy	207	SQFSSDQEIAHLLPENVALPATV-----AVASPHHTSATPKATLPP	249
Db	189	--MSTSAVYHSTPTGTTIASPTVKAISTRYTAPELTTATRSLRISQAHSSISTAKTSLSH	245
Qy	250	TNAS-----VTPGTSQQLATAPVTTT---SQPPHTS---TVF	287

Db 246 SHASSTHPEVPTSTINVPKTSR---DTSTPVTHTSATSSRPPPTITHSSPRS 301
Qy 288 TRAAATIQAMMTAVLUTTERAPTDSKGSLN-IPFEISULNLNGNVYMPALMSNV 346
Db 302 SPLSSTGPMATSIKTTTYPPTSHPORTLTHVPPFSTSVTPSHTVTPTHAQMS- 360
Qy 347 ESSTMNKTAWSMGRASPGSSQGSVP 373
Db 361 -----SASIHSTPTGTVP 373

Search completed: April 28, 2004, 12:59:51
Job time : 24 sec8

THIS PAGE BLANK (USPTO)

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 28, 2004, 12:54:37 ; Search time 17 Seconds

1320.132 Million cell updates/sec

Title: US-10-677-471-83

Perfect score: 2211

Sequence: 1 MFFGGERGSITYLVIICFLT..... LRRRKYRSRLDYLINGIVYDI 431

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_42:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	151.5	6.9	1240	1 YQ03 CAEEL	Q09550 caenorhabdi
2	151.5	6.9	1240	1 YQ03 CAEEL	P28968 equine hepa
3	150.5	6.8	860	1 CII2_COCPO	P54197 coccidiode
4	149.5	6.8	5179	1 MUC2_HUMAN	Q02817 homo sapien
5	149.5	6.8	5703	1 MUSC_HUMAN	Q9hc84 homo sapien
6	148.5	6.7	1233	1 MUSA_HUMAN	P98088 homo sapien
7	147.5	6.7	1609	1 FIG2_YEAST	P25653 saccharomyce
8	147	6.6	662	1 MUC1_XENLA	P05049 xenopus lae
9	146	6.6	786	1 STUB_DROME	Q05319 drosophila
10	144.5	6.5	1140	1 YMW6_YEAST	Q04893 saccharomyce
11	143	6.5	626	1 PM17_MOUSE	Q60696 mus musculu
12	142.5	6.4	491	1 PM17_BOVIN	Q06154 bos tauris
13	142	6.4	397	1 SEP1_MOUSE	Q62170 mus musculu
14	141.5	6.4	1161	1 DIA4_YEAST	P47179 saccharomyce
15	136	6.2	503	1 WSC2_YEAST	P53832 saccharomyce
16	136	6.2	799	1 ZXHD_HUMAN	P98168 homo sapien
17	136	6.2	3178	1 YSP9_CABEL	Q96124 caenorhabdi
18	135	6.1	803	1 ZXDB_HUMAN	P98169 homo sapien
19	133	6.0	556	1 WSC3_YEAST	P012215 saccharomyce
20	133	6.0	636	1 YNB6_YEAST	P38894 saccharomyce
21	133	6.0	1075	1 FLO5_YEAST	P23253 trypanosoma
22	132	6.0	1162	1 TGN1_TRICR	P32323 saccharomyce
23	131	5.9	725	1 AGAI_YEAST	Q01837 listeria iv
24	130.5	5.9	524	1 P60_LISTV	P10667 xenopus lae
25	129.5	5.9	400	1 MUAL_XENIA	P08640 saccharomyce
26	129.5	5.9	1367	1 AMW_YEAST	P03224 epstein-barr
27	128.5	5.8	234	1 VGPB_EBV	P29415 gallus galli
28	128	5.8	510	1 CX56_CHICK	P38739 saccharomyce
29	128	5.8	605	1 WSC4_YEAST	P25623 saccharomyce
30	128	5.8	870	1 SYP1_YEAST	Q13112 homo sapien
31	127.5	5.8	559	1 CAFB_HUMAN	P46593 candida alb
32	127.5	5.8	634	1 HWPI_CANAL	P39712 saccharomyce
33	5.7		1322	1 YAG3_YEAST	

ALIGNMENTS

34	126.5	5.7	1260	1 ALS1_CANAL	P46590 candida alb
35	126	5.7	405	1 SDC3_CHICK	P26261 gallus galli
36	125.5	5.7	909	1 LDD1_XENLA	Q99087 xenopus lae
37	125	5.7	600	1 SP96_DICDI	P14328 dictyosteli
38	124.5	5.6	1306	1 MSB2_YEAST	P32334 saccharomyce
39	124	5.6	1374	1 YMN3_YEAST	Q03099 saccharomyce
40	124	5.6	1513	1 MUC2_RAT	Q62635 ratus norv
41	124	5.6	1681	1 YRF2_YEAST	P40105 saccharomyce
42	124	5.6	1859	1 YRF3_YEAST	P53345 saccharomyce
43	124	5.6	1859	1 YRF6_YEAST	P53819 saccharomyce
44	123.5	5.6	503	1 PODX_MOUSE	Q9r0m4 mus musculi
45	123.5	5.6	544	1 GP10_DICDI	Q06885 dictyosteli

PT CARBOHYD 4373 4373 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 4422 4422 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 4438 4438 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 4502 4502 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 4616 4616 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 4627 4627 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 4752 4752 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 4787 4787 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 4881 4881 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 4888 4888 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 4955 4955 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 4970 4970 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 5019 5019 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 5038 5038 N-LINKED (GLCNAC. . .) (POTENTIAL).
 PT CARBOHYD 5069 5069 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CONFLICT 1351 1351 H -> L (IN REF. 3).
 FT CONFLICT 1412 1412 T -> S (IN REF. 3).
 FT CONFLICT 1449 1449 L -> P (IN REF. 3).
 FT CONFLICT 1504 1504 M -> T (IN REF. 3).
 FT CONFLICT 4192 4192 G -> S (IN REF. 2).
 SQ SEQUENCE 5179 AA; 540295 MN; 85CD7571FB9A5663 CRC64;

Query Match 6.8%; Score 149.5; DB 1; Length 5179;
 Best Local Similarity 34.1%; Pred. No. 2;
 Matches 43; Conservative 12; Mismatches 52; Indels 19; Gaps 4;
 Qy 220 PENVASALPATAVASPHHTSATPCKPATL-LPTNASVTP-SGTSQPOLATTA
 Db 1511 PASTTILPPTTSPSPTTTTPPPTTSPPTTIPPPSTTLPPTTSPSPPTT 1570 275
 Qy 276 SQPPTLIS-----TVFTPAAATQAMATAVLTTEGAPTDKGSL
 Db 1571 TPPPTTSPSPPTTSPPTTTPPPTTSPPTT-----TTPPPTTSPPTT 1627 323
 Qy 324 EISNLT 329
 Db 1628 PPTSTT 1633

RESULT 5

MUSB_HUMAN STANDARD; PRT; 5703 AA.
 AC 09HC04; 000447; 000573; 014985; 015494; 095291; 095451; 014881;
 AC 09552; 092828;
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Mucin 5B precursor (Mucin 5 subtype B, tracheobronchial) (High
 DE molecular weight salivary mucin MGL) (Sublingual gland mucin).
 GN MUC5B OR MUC5.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammali; Eutheria; Primates; Catarrhini; Hominida; Homo.
 OC NCBI-TaxID=9606;
 RN [1]
 RP SEQUENCE OF 1-1594 FROM N.A.
 RA Chen Y., Di Y.P., Wu R.;
 RT "Molecular cloning of the amino-terminal and 5'-flanking region of the
 human MUC5B mucin gene.";
 RT Submitted (NOV-1998) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE OF 1-1325 FROM N.A.
 MEDLINE=99009274; PubMed=979059;
 RA Offner G.D., Nunes D.P., Keates A.C., Afshai N.H., Troxler R.F.;
 RT "The amino-terminal sequence of MUC5B contains conserved
 multi-functional D domains: implications for tissue-specific mucin
 functions";
 RL Biochem. Biophys. Res. Commun. 251:350-355 (1998).
 RP SEQUENCE OF 40-1324 FROM N.A.
 MEDLINE=9023932; PubMed=8904771;
 RA Desbennet J.-L., Buisine M.P., Porchet N., Aubert J.-P., Laine A.;
 RA "Genomic organization of the human mucin gene MUC5B: cDNA and genomic
 sequences upstream of the large central exon.";
 J. Biol. Chem. 273:30157-30164 (1998).
 [4]
 RPT SEQUENCE OF 1326-4895 FROM N.A.
 RPT TISSUE=Placenta;
 RPT MEDLINE=97166151; PubMed=9013550;
 RA Desbennet J.-L., Guyonnet-Dupezat V., Porchet N., Aubert J.-P.,
 LAINE A.;
 "Human mucin gene MUC5B, the 10.7 kb large central exon encodes
 various alternate subdomains resulting in a super-repeat. Structural
 evidence for a 1p15.5 gene family.";
 RPT J. Biol. Chem. 272:3168-3178 (1997).
 [5]
 RPT SEQUENCE OF 4057-4480 FROM N.A.
 RPT TISSUE=Salivary gland;
 RPT MEDLINE=97292540; PubMed=9147051;
 RA Nielsen P.A., Bennett E.P., Wandal H.H., Therkildsen M.H.,
 Hannibal J., Claussen H.;
 "Identification of a major human high molecular weight salivary mucin
 (MGI) as tracheobronchial mucin MUC5B.";
 RPT Glycobiology 7:413-419 (1997).
 [6]
 RPT SEQUENCE OF 4721-5103 FROM N.A.
 RPT TISSUE=Gall bladder;
 RPT MEDLINE=97293229; PubMed=9144870;
 RA Keates A.C., Nunes D.P., Afshai N.H., Troxler R.F., Offner G.D.;
 RT "Molecular cloning of a major human gall bladder mucin: complete C-
 terminal sequence and genomic organization of MUC5B.";
 RL Biochem. J. 324:295-303 (1997).
 RPT [7]
 RPT SEQUENCE OF 4809-5587 FROM N.A.
 RPT TISSUE=Sublingual gland;
 RPT MEDLINE=96125555; PubMed=855565;
 RA Troxler R.F., Offner G.D., Zhang F., Iontcheva I., Oppenheim F.G.;
 RT "Molecular cloning of a novel high molecular weight mucin (MGI)
 from human sublingual gland.;"
 RL Biochem. Biophys. Res. Commun. 217:1112-1119 (1995).
 RPT [8]
 RPT SEQUENCE OF 4859-5703 FROM N.A.
 RPT TISSUE=Placenta;
 RPT MEDLINE=97347489; PubMed=9201995;
 RA Desbennet J.-L., Aubert J.-P., Porchet N., Laine A.;
 RT "Genomic organization of the 3' region of the human MUC5B mucin.";
 J. Biol. Chem. 272:16873-16883 (1997).
 CC -1- FUNCTION: Salivary mucin that is thought to contribute to the
 lubricating and viscoelastic properties of whole saliva.
 CC -1- SUBCELLULAR LOCATION: Secreted
 CC -1- TISSUE SPECIFICITY: Expressed mainly in bronchus glands and also
 in submaxillary glands, endocervix, gall bladder, and pancreas.
 CC --1- PTM: Highly glycosylated.
 CC --1- SIMILARITY: Contains 1 TIL (trypsin inhibitory-like) domain.
 CC --1- SIMILARITY: Contains 3 WWRP domains.
 CC --1- SIMILARITY: Contains 4 WWRP domains.
 CC --1- SIMILARITY: Contains 1 C-terminal cystine knot-like (CTCK) domain.
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 use by non-profit institutions as long as its content is in no way
 CC modified and this statement is not removed. Usage by and for commercial
 CC entities requires a license agreement (see <http://www.isb-sib.ch/announce/>
 CC or send an email to license@sb-sib.ch).

CC -----

CC -----

DR AF107890; AAC33673; 1; -.
 EMBL AF08660; AA67545; 1; -.
 DR EMBL AJ004862; CA06167; 1; -.
 DR EMBL 272496; CA98577; 1; -.
 DR EMBL X74955; CA5910; 1; -.
 DR EMBL U63036; AAB61398; 1; -.
 DR EMBL U78554; AAC51344; 1; -.
 DR EMBL U70552; AAC51344; 1; JOINED.
 DR EMBL U78553; AAC51344; 1; JOINED.
 DR EMBL U78551; AAC51343; 1; -.

DR	EMBL; U95031; AAB65151.1; -.	FT	CARBONYD	5662	5662	N-LINKED (GLCNAC. . .) (POTENTIAL).
DR	EMBL; Y09188; CAA70956.1; -.	FT	VARIANT	5137	5137	T -> S (in dbSNP:2672788).
DR	Gene: HGNC:7516; MUC5B.	FT	CONFLICT	34	34	/FTId:VR 014123.
DR	MM; 60070; -.	FT	CONFLICT	95	100	G -> E (IN REF. 2).
GO; GO:0005515; F:protein binding; IPI.		FT	CONFLICT	104	104	FPGCN -> LPCLK (IN REF. 2).
DR	InterPro; IPR006208; Cys_knot_C.	FT	CONFLICT	142	142	E -> K (IN REF. 1).
DR	IPR06207; Cys_knot_C.	FT	CONFLICT	225	225	R -> S (IN REF. 2).
DR	InterPro; IPR005041; PMP_inhibitor.	FT	CONFLICT	330	331	PL -> T (IN REF. 2).
DR	InterPro; IPR0552; VC_out.	FT	CONFLICT	337	337	E -> N (IN REF. 2).
DR	InterPro; IPR00107; VWF_C.	FT	CONFLICT	356	356	E -> K (IN REF. 2).
DR	InterPro; IPR01846; VWF_D.	FT	CONFLICT	362	362	G -> R ((IN REF. 2).
DR	Pfam; PF00007; Cys_knot_1.	FT	CONFLICT	369	369	MISSING (IN REF. 2 AND 3).
DR	Pfam; PF00826; TIL_1.	FT	CONFLICT	374	374	D -> N (IN REF. 2).
DR	Pfam; PF00093; vwc_1.	FT	CONFLICT	394	394	RT -> TR (IN REF. 2).
DR	Pfam; PF00094; vwd_4.	FT	CONFLICT	468	469	RK -> GR (IN REF. 2).
DR	SMART; SMART00214; VWC_6.	FT	CONFLICT	512	512	L -> P (IN REF. 2).
DR	SMART; SMART00215; VWC_out_4.	FT	CONFLICT	587	587	GAA -> AH (IN REF. 3).
DR	PROSITE; PRO01185; CTCK_1; 1.	FT	CONFLICT	601	601	A -> S (IN REF. 3).
DR	PROSITE; PRO01225; CTCK_2; 1.	FT	CONFLICT	628	629	Dp -> RS (IN REF. 2).
DR	PROSITE; PS01208; VWF_C_1; 2.	FT	CONFLICT	633	633	F -> L ((IN REF. 2).
DR	KW	FT	CONFLICT	676	676	A -> P (IN REF. 3).
GWYNPALMSNEVS 348		Query	Match	6	8*	Score 149, 5; DB 1; Length 5703;
GTWLT 1993	Best Local Similarity	30.5%;	Pred.	0.22;		
Db	Matches	62;	Conservative	22;	Mismatches	58;
Db	1951	SOSSQSSDQEIAHLLPEVNLSPATVAVA-SPHITSATPKATLPTNASVTPSGTSQP 262	Qy	204	SOSSQSSDQEIAHLLPEVNLSPATVAVA-SPHITSATPKATLPTNASVTPSGTSQP 262	
Db	1951	SKATPSS-----PCTATPALESTARTPTATPSS-----GTWT 1993	Qy	263	QIATTATPVTWV-----TSQRPPTLSTVTRAATLQAMA-----TTAVLT 304	
Db	1994	RLSQTTTPMATSTATSPETPVHTSITVLTITATTGATGSVATPSPSTGTAHTKVL 2053	Qy	305	TT--FQA-PDPSKGSETIPTFEISNLNT-----GIVYNPIALMSNEVS 348	
Db	2054	TTTGTTGTTATPSSPSPGRARTLP-VWISITTTPTGTTGTTGTTGTTV 2112	Qy	349	STMKTKASWEGRAASGSSQCS 371	
Db	2113	AT-----GSMATSSSTTS 2127	Qy	349	STMKTKASWEGRAASGSSQCS 371	
RESULTS 6						
MUSA_HUMAN						
ID	MUSA_HUMAN					
AC	P98080; OT06055; Q1792; Q8WQ03;					
DT	01-FEB-1996 (Rel. 33, Created)					
DT	28-FEB-2003 (Rel. 41, Last sequence update)					
DT	28-FEB-2003 (Rel. 41, Last annotation update)					
DE	Mucin 5AC (Mucin 5 subtype AC, tracheobronchial) (Tracheobronchial mucin) (TBM) (Major airway glycoprotein) (Fragment).					
GN	MUC5AC OR MUC5					
OS	Homo Sapiens (Human)					
OC	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.					
OX	NCBI_TaxID=9606;					
[1]	SEQUENCE OF 1-372 FROM N-A.					
RP	SEQUENCE OF 1-372 FROM N-A.					
RX	SEQUENCE OF 193-1233 FROM N-A.. AND PARTIAL SEQUENCE.					
RA	RA					
RA	Escande F., Aubert J.-P., Porchet N., Buisine M.P.;					
RA	"Human mucin gene MUC5AC: organization of its 5'-region and central repetitive region.";					
RA	Meerzan D., Charles E., Daskal E., Polymeropoulos M.H.,					
RA	Martin B.M., Rose M.C.;					
RT	"Cloning and analysis of cDNA encoding a major airway glycoprotein, human tracheobronchial mucin (MUC5)." ;					
RT	human tracheobronchial mucin (MUC5)." ;					

[3] SEQUENCE OF 153-1233 FROM N.A.
 TISSUE:Placenta, and Trachea;
 MEDLINE=9885541; PubMed=9220875;
 Buisine M.P., Debeeyn J.L., Porchet N., Degand P., Laine A.,
 Aubert J.-P.;
 "Genomic organization of the 3'-region of the human MUC5AC mucin gene:
 additional evidence for a common ancestral gene for the lip15.5 mucin
 gene family";
 RIL Biochem. J. 332:729-738 (1998).

[4] SEQUENCE OF 284-1233 FROM N.A.
 MEDLINE=9593957; PubMed=775418;
 RIBESBUFFLEUR T., Roche F., HILL A.S., Lacasa M., Fox M., Swallow D.M.,
 ZWEIBAUM A., Real P.X.,
 "Characterisation of a mucin cDNA clone isolated from HT-29 mucus
 secreting cells: The 3' end of MUC5AC";
 J. Biol. Chem. 270:11665-11673 (1995).

CC -I- FUNCTION: MATOR AIRWAY GLYCOPROTEIN.
 CC -I- SUBUNIT: Multimeric.
 CC -I- TISSUEULAR LOCATION: Secreted.
 CC -I- TISSUE SPECIFICITY: TRACHEOBRONCHIAL MUCOSAE (NOT SOLELY).
 CC -I- SIMILARITY: TO VARIOUS MUCINS.
 CC -I- SIMILARITY: Contains 1 VWFC domain.
 CC -I- SIMILARITY: Contains 1 VWFC domain.
 CC -I- SIMILARITY: Contains 1 C-terminal cystine knot-like (CTCK) domain.

This SWISS-PROT entry is copyright. It is produced through a collaboration
 between the Swiss Institute of Bioinformatics and the EMBL outstation -
 the European Bioinformatics Institute. There are no restrictions on its
 use by non-profit institutions as long as its content is in no way
 modified and this statement is not removed. Usage by and for commercial
 entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
 or send an email to license@isb-sib.ch).

CC EMBL: AJ298319; CACB8676_1; -
 EMBL: U06711; AAC18431_1; -
 EMBL: AJ001402; CAA04737_1; -
 EMBL: AJ001403; CAA04738_1; -
 EMBL: Z48314; CAA8307_1; -.
 DR Genew: HGNC:7515; MUC5AC;
 GO: GO-0005201; F:extracellular matrix structural constituent; TAS.
 GO: GO-000155; P:cell adhesion; NAS.
 DR InterPro: IPR06020; Cys_knot.
 DR InterPro: IPR06207; Cys_knot_C.
 DR InterPro: IPR02819; TIL_CysBrich.
 DR InterPro: IPR01007; VWFC_C.
 DR Pfam: PF00093; Cys_knot_1.
 DR Pfam: PF00093; VWFC; 1.
 DR PROSITE: PS01185; CTCK_1; 1.
 DR PROSITE: PS01225; CTCK_2; 1.
 DR PROSITE: PS01208; VWFC_1; 2.
 DR PROSITE: PS00184; VWFC_2; 2.
 DR NON_TER 1
 FT DOMAIN 431 496 VWFC_1.
 FT DOMAIN 500 659 VWFC_1.
 FT DOMAIN 688 712 5 X 5 AA TANDEM REPEATS OF T-T-V-G-P/S.
 FT REPEAT 688 692 1.
 FT REPEAT 693 697 2.
 FT REPEAT 698 702 3.
 FT REPEAT 703 707 4.
 FT REPEAT 708 712 5.
 FT DOMAIN 857 923 VWFC_2.
 FT DOMAIN 962 1026 VWFC_3.
 FT DOMAIN 1119 1199 CTCK.
 FT DISULFID 1111 1161 BY SIMILARITY.
 FT DISULFID 1136 1175 BY SIMILARITY.
 FT DISULFID 1140 1191 BY SIMILARITY.
 FT DISULFID 1158 1193 BY SIMILARITY.

RESULT 7
 FIG2_YEAST ID FIG2_YEAST STANDARD; PRT; 1609 AA.
 AC P25653;
 DT 01-MAY-1992 (Rel. 22, Created)
 DT 15-DEC-1998 (Rel. 22, Last sequence update)
 DE Factor induced gene 2.
 DR Factor induced gene 2.
 GS FIG2 OR YCR89W OR YCR1102.
 OC Saccharomyces cerevisiae (Baker's yeast).
 OC Eukaryota; Fungi; Ascomycota; Saccharomycetidae; Saccharomycetes;
 OC Saccharomycetales; Saccharomycetaceae; Saccharomycetidae.
 OC NCBI_TaxID=4932;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=9297594; PubMed=1523899;
 RA WILSON C., Grisanti P., Frontali L.;
 RT "The complete sequence of a 6146 bp fragment of Saccharomyces
 cerevisiae chromosome III contains two new open reading frames.";
 RL Yeast 8:569-575(1992).
 CC -I- FUNCTION: Required for efficient mating.
 CC -I- INDUCTION: By mating pheromones.

This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@isb-sib.ch).

SGD: S0000685; FIG2;
 GO: GO:000277; C:cell wall (sensu Fungi); IDA.
 GO: GO:000753; P:cellular morphogenesis during conjugation w. . . ; IMP.
 GO: GO:000755; P:cryptogamy; IMP.
 SEQUENCE 1609 AA; 166049 MW; 7D66AD7F85A7B852 CRC64;
 Query Match 6.7%; Score 147.5; DB 1; Length 1609;
 Best Local Similarity 22.4%; Pred. No. 0.061; Indels 77; Gaps 14;
 Matches 88; Conservative 63; Mismatches 164;
 Y 41 I Q S S L S G I R G M H E P V Y T S T Q E D C I N S C S T K N I G D K A C N L M F D T R -- K T A R Q P C Y 96
 Y 1057 I M S S S S S V W I S T N E K B P S S T P S Y N F S S C Y S L P S S S T P S O Y S L S T A T T I N G I K I V -- Y 1111
 Y 97 I F P C P R E P E A C P I K P A K O G I M S Y K I I D P S L T R N L P S Q B L P Q B D S L I K Q P S Q A V T P L A H H 156
 Y 1112 T T W C P L E K S T V - A A S O S S V S V D R V S S K - P S S Q L S O - T S I O V T L S T A T T I S G L 1165
 157 H T D Y S K P E T D I S H R D T L S O K F G S D H L E - K L F K M D E A S Q L L A V Y K E B G H S Q S S O - - - - F 209

```

!- ALTERNCELLULAR PRODUCTS:
  Event=alternative splicing; Named isoforms=7;
  Comment=Additional isoforms seem to exist. Experimental
  confirmation may be lacking for some isoforms;

Name=1; Isoid=Q05049-1; Sequence=Displayed;
Name=2; Isoid=Q05049-2; Sequence=VSP_004650;
Name=3; Isoid=Q05049-3; Sequence=VSP_004651;
Name=4; Isoid=Q05049-4; Sequence=VSP_004647; VSP_004648;
Name=5; Isoid=Q05049-5; Sequence=VSP_004646; VSP_004649; VSP_004650;
Name=6; Isoid=Q05049-6; Sequence=VSP_004646; VSP_004648;
Name=7; Isoid=Q05049-7; Sequence=VSP_004647;

!- TISSUE SPECIFICITY: Skin.
!- PTM: Extensively O-glycosylated.
!- SIMILARITY: Contains 6 P-type (trefoil) domains.

-----  

  This SWISS-PROT entry is copyright. It is produced through a collaboration
  between the Swiss Institute of Bioinformatics and the EMBL outstation -
  the European Bioinformatics Institute. There are no restrictions on its
  use by non-profit institutions as long as its content is in no way
  modified and this statement is not removed. Usage by and for commercial
  entities requires a license agreement (see http://www.isb-sib.ch/announce/)
  or send an email to license@isb-sib.ch).

```

```

ID  MIG1_XENLA  STANDARD;  PRT;  662 AA.
AC  Q5049;
DT  01-OCT-1994 (Rel. 30, Created)
DT  01-OCT-1994 (Rel. 30, Last sequence update)
DT  28-FEB-2003 (Rel. 41, Last annotation update)
DE  Integumentary mucin C1.1 (FIM-C.1) (Fragment).
OS  Xenopus laevis (African clawed frog).
OC  Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
    Xenopodinae; Xenopus.
OX  NEBI_TAXID=8355;
RN  [1]
RP  SEQUENCE FROM N.A. (ISOFORMS 1; 2; 3; 4; 5; 6 AND 7).
RC  TISSUE=Skin;
RX  MEDLINE=93077556; PubMed=1447205;
RA  Hauser F, Hoffmann W;
RT  "P-domains as shuffled cysteine-rich modules in integumentary mucin
    C.1 (FIM-C.1) from Xenopus laevis. Polydispersity and genetic
    polymorphism.", J. Biol. Chem. 267:24620-24624(1992).
RL  -1- FUNCTION: Could be involved in defense against microbial

```

FT	DOMAIN	161	202	P-TYPE 1.
FT	DOMAIN	218	301	8 X APPROXIMATE TANDEM REPEATS, THR-RICH.
FT	REPEAT	224	21-	
FT	REPEAT	225	239	2-2.
FT	REPEAT	240	249	2-3.
FT	REPEAT	250	259	2-4.
FT	REPEAT	260	275	2-5.
FT	REPEAT	276	287	2-6.
FT	REPEAT	288	294	2-7.
FT	REPEAT	295	301	2-8.
FT	DOMAIN	306	347	P-TYPE 2.
FT	DOMAIN	353	394	P-TYPE 3.
FT	DOMAIN	402	522	12 X APPROXIMATE TANDEM REPEATS, THR-RICH.
FT	REPEAT	402	411	3-1.
FT	REPEAT	412	419	3-2.
FT	REPEAT	420	431	3-3.
FT	REPEAT	432	443	3-4.
FT	REPEAT	444	453	3-5.
FT	REPEAT	454	460	3-6.
FT	REPEAT	461	472	3-7.

FT REPEAT 473 479 3-8.
 FT REPEAT 480 491 3-9.
 FT REPEAT 492 498 3-10.
 FT REPEAT 499 515 3-11.
 FT REPEAT 516 522 3-12.
 FT DOMAIN 525 566 P-TYPE 4.
 FT DOMAIN 572 613 P-TYPE 5.
 FT DOMAIN 620 661 P-TYPE 6.
 FT DISUFLID 162 188 BY SIMILARITY.
 FT DISUFLID 172 187 BY SIMILARITY.
 FT DISUFLID 182 199 BY SIMILARITY.
 FT DISUFLID 307 333 BY SIMILARITY.
 FT DISUFLID 317 332 BY SIMILARITY.
 FT DISUFLID 327 344 BY SIMILARITY.
 FT DISUFLID 354 380 BY SIMILARITY.
 FT DISUFLID 364 379 BY SIMILARITY.
 FT DISUFLID 374 391 BY SIMILARITY.
 FT DISUFLID 526 552 BY SIMILARITY.
 FT DISUFLID 536 551 BY SIMILARITY.
 FT DISUFLID 545 563 BY SIMILARITY.
 FT DISUFLID 573 599 BY SIMILARITY.
 FT DISUFLID 583 598 BY SIMILARITY.
 FT DISUFLID 593 610 BY SIMILARITY.
 FT DISUFLID 621 647 BY SIMILARITY.
 FT DISUFLID 631 646 BY SIMILARITY.
 FT DISUFLID 641 658 BY SIMILARITY.
 FT VARSPLIC 240 259 Missing (In isoform 5 and isoform 6).
 /FTID=VSP_004646.
 FT VARSPLIC 250 259 Missing (In isoform 4 and isoform 7).
 /FTID=VSP_004647.
 FT VARSPLIC 276 294 Missing (In isoform 4 and isoform 6).
 /FTID=VSP_004648.
 FT VARSPLIC 278 278 Missing (In isoform 5).
 /FTID=VSP_004649.
 FT VARSPLIC 305 350 Missing (In isoform 2 and isoform 5).
 /FTID=VSP_004650.
 FT VARSPLIC 420 498 Missing (In isoform 3).
 /FTID=VSP_004651.

Query Match 6.6%; Score 147; DB 1; Length 662;
 Best Local Similarity 26.9%; Pred. No. 0.022;
 Matches 49; Conservative 19; Mismatches 78; Indels 36; Gaps 5;
 Sequence 662 AA: 67774 MW: F085277F1BD2FD40 CRC64:

Qy 228 ATIVAVASPHTSATPKATLPTNASVTPSTSQPOLATTPVIT-----VTSQPP 279
 Qy 394 STSQVAKTT--TPPTPTPTPTKTTKTTPTPTPTPTPTPTPTPTKTTPT 451
 Qy 280 TPLISTVTRAATLQAMATTAVLTTFQAPTDKSGSLETPPTESLNLNTGNVYNT 339
 Db 452 TITPTTTKATTITPTTTPTTTKATTITPTTTPTTTKATTIT-----PT 506
 Qy 340 ALMSMNVESSTNKTAS-----WEGREASPGSSSQGSVPGNO---YG 378
 Db 507 TTTTTTTKATTITSGCKMEPSKRADCGYPGITESQCRSKGCFDSSIPOTKWCFS 566
 Qy 379 1P 380
 Db 567 1P 568

RESULT 9
 STUB_DROME STANDARD; PRT; 786 AA.
 ID 005319;
 DT 01-JUN-1994 (Rel. 29, Created)
 DT 01-JUN-1994 (Rel. 29, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE Serine proteasee stubble (EC 3.4.21.-) (Stubble-stubblloid protein).
 GN SB OR SB-SBD.

OS Drosophila melanogaster (Fruit fly).
 OC Lukaszewski, Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
 OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 OC Ephdroioidea; Drosophilidae; Drosophila;
 OX NCBI_TaxID=7227;
 RN [1]—
 RP SEQUENCE FROM N.A.
 RC STRAIN=Oregon-R;
 RX MEDLINE=93281671; PubMed=7685111;
 RA Appel L.F., Prout M., Abu-Shumays R., Hammonds A., Garbe J.C.,
 Fristrom D., Fristrom J.;
 RT "The Drosophila Stubble-stubblloid gene encodes an apparent
 transmembrane serine protease required for epithelial
 morphogenesis.",
 RT Hormone dependent protease required for epithelial
 morphogenesis. Has a dual function, detaches imaginal disc cells
 from extracellular matrices through its extracellular proteolytic
 domain and transmits an outside-to-inside signal to its
 intracellular domain to modify the cytoskeleton during
 morphogenesis. May be able to activate itself.
 CC -- INDUCTION: By 20-hydroxyecdysone (20HE).
 CC -- SIMILARITY: Belongs to peptidase family S1.
 CC -- CAUTION: It is uncertain whether Met-1 or Met-24 is the initiator.
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 between the Swiss Institute of Bioinformatics and the EMBL outstation -
 the European Bioinformatics Institute. There are no restrictions on its
 use by non-profit institutions as long as its content is in no way
 modified and this statement is not removed. Usage by and for commercial
 entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
 or send an email to license@isb-sib.ch).
 CC
 DR EMBL; L11451; AAA26918.1; -.
 DR PIR; A47547; A47547.
 DR HSSP; P00163; 1DPO.
 DR MEROPS; S01.225; -.
 DR FLYbase; FBgn0003319; Sb.
 DR GO; GO:0004252; F-serine-type endopeptidase activity; NAS.
 DR GO; GO:0007010; P-cytoskeleton organization and biogenesis; IMP.
 DR InterPro; IPR00903; Cys_Ser_trypsin.
 DR InterPro; IPR001254; Peptidase_S1.
 DR InterPro; IPR001314; Peptidase_SIA.
 DR Pfam; PF00089; Trypsin; 1.
 DR PRINTS; PR0072; CHYMOTRYPIN.
 DR SMART; SM00020; TRYPSIN_SPC; 1.
 DR PROSITE; PSS0240; TRYPSIN_DOM; 1.
 DR PROSITE; PS00134; TRYPSIN_HIS; FALSE_NEG.
 DR PROSITE; PS00135; TRYPSIN_SER; 1.
 KW Hydrolase; Serine protease; Transmembrane; Glycoprotein; Zymogen;
 KW Signal-anchor.
 FT CHAIN 1 542 NON-CATALYTIC CHAIN (POTENTIAL).
 FT DOMAIN 1 58 CATALYTIC CHAIN (POTENTIAL).
 FT TRANSMEM 59 80 CYTOSLAMIC (POTENTIAL).
 FT DOMAIN 81 786 SIGNAL-ANCHOR (TYPE-II MEMBRANE PROTEIN).
 FT DOMAIN 543 786 EXTRACELLULAR (POTENTIAL).
 FT DOMAIN 267 276 SERINE PROTEASE.
 FT DOMAIN 287 298 POLY-SER.
 FT DOMAIN 391 478 POLY-GLN.
 FT DOMAIN 412 422 POLY-THR-RICH.
 FT DOMAIN 471 478 POLY-SER.
 FT ACT SITE 589 589 CHARGE RELAY SYSTEM (BY SIMILARITY).
 FT ACT SITE 639 639 CHARGE RELAY SYSTEM (BY SIMILARITY).
 FT ACT SITE 737 737 CHARGE RELAY SYSTEM (BY SIMILARITY).
 FT DISUFLID 531 659 INTERCHAIN (BY SIMILARITY).
 FT DISUFLID 574 590 BY SIMILARITY.
 FT DISUFLID 703 722 BY SIMILARITY.
 FT DISUFLID 733 762 BY SIMILARITY.
 FT CARBOHYD 177 177 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 671 671 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SEQUENCE 786 AA; 85010 MW; CE3E755/60B9DE4D CRC64;

Query Match 6.6%; Score 146; DB 1; Length 786;
 Best Local Similarity 21.0%; Pred. No. 0.031; Mismatches 162; Indels 70; Gaps 9;
 Matches 74; Conservative 47; Mismatches 162; Indels 70; Gaps 9;

QY 63 CINS---CCSINKNISGDKACNLIMIFTRKVARQPCYCYLECPNEACPLPKAQLGMSYR 118
 DB 164 CVDSFMFGSCCTHNYTD---NIVLPQTAFSYTRPTKPLTRRPPRPAVYK----- 211
 QY 119 IITDFSLTRNUPSQEPLQEDSLHGFQSQAVTPLAHHTD-----YSKPTDISW 168
 DB 212 -----MISQMTTIEPR-----HGAGTILVIRPSGPFHQGTLARHPHPPQSKP----- 254
 QY 169 RDTLSQKRGSSPHLEKLFKMDAQSOLAYKEKGHSOSQSSDQETAHLPENVAL----- 226
 DB 255 --TASDLHGSAHPSSSSSSSSSNPNPSIWHISTQQQQQHQONQHWNQHWTPEPFIK 312
 QY 227 -----PATAVASHTTS-----ATEPKPATLPTVAVASPTGTSQLA 265
 DB 313 PRPTGWTKPGIVNLMPARPSKESPKTPKIVYDRSPPPPSVPPSSTSTSTSLWPA 372
 QY 266 TAAAPPVITVTSQPTLISVTRAAATLQAMATTAVLITVQAPIDSKGSLETTPEI 325
 DB 373 QPHPPHPRPRTPLSQTGASSSHWPSSTTSSTTSSTTWTTRTTPTT 432
 QY 326 SNTLNL--TGNVNTPTALMSMSNVESTMNKTAWSWEGREASGSSQSVPRNO 376
 DB 433 RRTTNNKPTPRYQRPTRATSSSTTSSKPTTRPISSSSSSGIVTSQ 485

RESULT 10

YM96 YEAST STANDARD; PRT; 1140 AA.
 AC 004831; ID 01-NOV-1997 (Rel. 35, Created)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Hypothetical 113.1 kDa protein in PRE5-FFM4 intergenic region.
 GN YMR317W OR YM994.09.

OS Saccharomyces cerevisiae (Baker's yeast).
 OC Baktaryota; Fungi; Ascomycota; Saccharomycetes;
 OC Saccharomycetales; Saccharomyctaceae; Saccharomyces.
 OX NCBI_TaxID=4932;
 RN [1]
 RP SEQUENCE FROM N.A.

AC 004831; ID 01-NOV-1997 (Rel. 35, Last sequence update)

DE Hypothetical 113.1 kDa protein in PRE5-FFM4 intergenic region.
 GN YMR317W OR YM994.09.

OS Saccharomyces cerevisiae (Baker's yeast).
 OC Baktaryota; Fungi; Ascomycota; Saccharomycetes;
 OC Saccharomycetales; Saccharomyctaceae; Saccharomyces.
 OX NCBI_TaxID=4932;
 RN [1]
 RP SEQUENCE FROM N.A.

AC 004831; ID 01-NOV-1997 (Rel. 35, Last sequence update)
 DE Hypothetical 113.1 kDa protein in PRE5-FFM4 intergenic region.
 GN YMR317W OR YM994.09.

OS Saccharomyces cerevisiae (Baker's yeast).
 OC Baktaryota; Fungi; Ascomycota; Saccharomycetes;
 OC Saccharomycetales; Saccharomyctaceae; Saccharomyces.
 OX NCBI_TaxID=4932;

!- DOMAIN: Contains many Ser/Thr-rich domain and repeats.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 between the Swiss Institute of Bioinformatics and the EMBL outstation -
 the European Bioinformatics Institute. There are no restrictions on its
 use by non-profit institutions as long as its content is in no way
 modified and this statement is not removed. Usage by and for commercial
 entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
 or send an email to license@isb-sib.ch).

CC EMBL; Z54141; CAA9835.1; -.

CC SGD: S000936; YMR317W.

CC Hypothetical protein; Repeat.

CC SEQUENCE 1140 AA; 113070 MW; 0153EBCA24FB5427 CRC64;
 QY Match 6.5%; Score 144.5; DB 1; length 1140;
 Best Local Similarity 21.2%; Pred. No. 0.063; Mismatches 169; Indels 87; Gaps 13;

Query Match 1; Score 146; DB 1; Length 786;
 Best Local Similarity 21.0%; Pred. No. 0.031; Mismatches 162; Indels 70; Gaps 9;
 Matches 74; Conservative 47; Mismatches 162; Indels 70; Gaps 9;

QY 1 MFFGGECSSLTYLVIICFLTRLASQNLCKSLEDWVID--IQSSLKGTRGNPVEYTS 58
 DB 456 LFSSKNVTSVSTLV-----ATEASSVSSLRPSSETIASNIESLSTGINSVTTTS 510
 QY 59 TOEDCNSCCSTKN-----ISGDKAQNLMFDTTRK-ARQPNCYUFCPNEEACP 107
 DB 511 AASSTLGSKVSSNSRMAKSSTSLSKSVFNGNSVTTSPASI-----SLT 563
 QY 108 LKPAKGMSYRITDFFSLTRNLPSOELPQDSDLHGFQFSQAVTPLAHHTD-----FSSDQE1 215
 DB 564 ASPLPSWNSDTSSEASISNLAASSAPSNDNNTIASLIVT-----KTKNSVSSIV 618
 QY 168 WRDTLSQKFGSSDHLEKLFKMDAQSOLAYKEKGHSOSQ-----FSSDQE1 215
 DB 619 SSITSSETTENSN-----LATSSILSNSKATARSLSNATASNQNVPGTFSMSMSS 671
 QY 216 AHLPEVNSALPATAVASP-----HTTATPKATLPTMASVTPSGSQQL 264
 DB 672 TSVITPGFSTSSASLAINSTVSSLAGYFSFSTPESSPTSTLVSEAPSTV-----SM 726
 QY 265 ATTAPPVITVTSQPTLISVTRAAATLQAMATTAVLITVQAPIDSKGSLETTPEI 315
 DB 727 TTSAPENNTSARSPEBTSAPLSTTSVSVPLASGDVTSLSLAHNITTSASSTSSA 786
 QY 316 SLETTPEIENLTNTGNYVNP-----TALMSNVESSTMNK 354
 DB 787 QL-----VSKSTISSSILVTPRIDRSGNSSTASRATSLPNKT 824

RESULT 11

PM17_MOUSE STANDARD; PRT; 626 AA.
 AC 060696; ID 01-NOV-1997 (Rel. 35, Created)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE Melanocyte protein Pmel 17 precursor (Silver locus protein).
 GN SILV OR PMBL17 OR D10H15S53E OR SI.

Mus musculus (Mouse).
 Baktaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murine; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.

RC STRAIN=S288C / AB972;
 RX MEDLINE=9713268; PubMed=9169872;

RA Bowman S., Churcher C.M., Badcock K., Brown D., Chillingworth T.,
 RA Connor R., Devlin K., Gentles S., Hamlin N., Hunt S.,
 RA Jagels K., Bye G., Moulie S., Odell C., Pearson D., Rajandream M.A.,
 RA Rice P., Stelton J., Walsh S., Whithead S., Barrall B.G.;
 RT "The nucleotide sequence of *Saccharomyces cerevisiae* chromosome
 RT XIII.";
 RL Nature 387:90-93 (1997).

CC !- DOMAIN: Contains many Ser/Thr-rich domain and repeats.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 between the Swiss Institute of Bioinformatics and the EMBL outstation -
 the European Bioinformatics Institute. There are no restrictions on its
 use by non-profit institutions as long as its content is in no way
 modified and this statement is not removed. Usage by and for commercial
 entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
 or send an email to license@isb-sib.ch).

CC EMBL; U14133; AAA65538.1; -.

CC PIR; S53871; S53871.

CC MGD; MGI:98301; Si.

DR InterPro; IPR000601; PKD.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 between the Swiss Institute of Bioinformatics and the EMBL outstation -
 the European Bioinformatics Institute. There are no restrictions on its
 use by non-profit institutions as long as its content is in no way
 modified and this statement is not removed. Usage by and for commercial
 entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
 or send an email to license@isb-sib.ch).

DR PF00801; PKD; 1.
 DR SMART; SW0089; PKD; 1.
 DR PROSITE; PS5003; PKD; 1.
 KW Transmembrane; Glycoprotein; Signal; Melanin biosynthesis; Repeat;
 KW Disease mutation.
 SIGNAL 1 24 POTENTIAL.
 FT CHAIN 25 626 MELANOCYTE PROTEIN PHE1 17.
 FT DOMAIN 25 562 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 563 583 POTENTIAL.
 FT DOMAIN 584 626 CYTOPLASMIC (POTENTIAL).
 FT DOMAIN 255 292 PKD. X 13 AA APPROXIMATE TANDEM REPEATS.
 FT REPEAT 315 327 1.
 FT REPEAT 328 340 2.
 FT REPEAT 341 353 3.
 FT REPEAT 354 366 4.
 FT REPEAT 367 379 5.
 FT REPEAT 380 392 6.
 FT REPEAT 393 411 7.
 FT CARBOHYD 81 81 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 106 106 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 111 111 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 535 535 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT VARIANT 170 170 S -> L (IN SILVER).
 FT VARIANT 175 175 R -> G (IN SILVER).
 FT VARIANT 373 373 D -> N (IN SILVER).
 FT VARIANT 471 471 F -> S (IN SILVER).
 FT VARIANT 603 626 RKAQASGILRARGIGENLTIKAPWTQWG (IN SILVER).
 SQ SEQUENCE 626 AA; 65980 MW; 7AB941D282FB104 CRC64;
 Query Match 6.5%; Score 143; DB 1; Length 626;
 Best Local Similarity 23.3%; Pred. No. 0.037; Gaps 21;
 Matches 94; Conservative 52; Mismatches 141; Indels 116; Gaps 21;
 QY 19 LTLRLSASQNCIJKKSLEDWVVDIQLSSKG--IRGNEPVVYSTQEQCINSSCSTKNIQGD 76
 DB 86 IALHFFPGSQVKVLP--DGQVWANNTTGSQVWQGPVYQVQEPDD-----
 QY 77 KACNLNMTFDTRKTVARQPNCLYJFCPNFEACPL--KPAKGIMSY-----RIT 121
 DB 129 -AC--VF-----PDDGPGCPSGPKPKRSSLVWKTWKGKWWQVLGGPV 168
 QY 122 DPPSLTRNLPLPQELPQEDSLIQLQGQFSQAVTPLAHRRHHTDYSKPTDLSWRDTLSQ--KFGS 178
 DB 169 RSIATIARTHAKLGHHTMVTWVHRRGSQSYVPLAHASSTFTTDQVPRFSVSVSOLQALDGE 228
 QY 179 SDHLEK-----LFKMDEASAOI-----LAYK-EKGHSQSSQSSDQBIAHLPENVALP 227
 DB 229 TKFLRKRHPLTALQQLDPSGYLAEADLSYIWMDFGQGQGTLSRALDVTHTYLEGSVTA 288
 QY 228 ATVAVASPHTS--ATPKPAT--LLPT-NASVTPS-----GTSQPOLATTPVTT 272
 DB 289 QVVLQAIPLVSCGSSVSPGTTGWTAAAGTTSQGTTKVGTTPGQMPITPSGT 348
 QY 273 TVTSQOPTLTSVFTTRAATQAMATTAVLTTFOAAPTDSKGSLETRPFBISNLNT 332
 DB 349 TVVQMPTEVTA-----TSBQMLTSAVIDT-----LAEVST-TEGT 385
 QY 333 GWNWNPALSMNVESSTMNKTSASWEGREAS--PGSSSQGSV 372
 DB 386 GT--TPRPRSGTVAQAT-----TTEGRDASPLPPTOSSTSI 421
 RESULT 12
 PM17_BOVIN STANDARD; PRT; 491 AA.
 AC 006154;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 16-OCT-2001 (Rel. 40, Last annotation update)
 DE Melanocyte protein Phe1 17 (Retinal pigment epithelial-specific protein) (Fragment).

DR PF00801; PKD; 1.
 DR SMART; SW0089; PKD; 1.
 DR PROSITE; PS5003; PKD; 1.
 KW Transmembrane; Glycoprotein; Melanin biosynthesis; Repeat.
 NON-TER 1 1 EXTRACELLULAR (POTENTIAL).
 FT DOMAIN <1 423 POTENTIAL.
 FT TRANSMEM 424 444 CYTOPLASMIC (POTENTIAL).
 FT DOMAIN 445 491 PKD.
 FT DOMAIN 450 150 X 13 AA APPROXIMATE TANDEM REPEATS.
 FT DOMAIN 148 256 1.
 FT REPEAT 149 160 1.
 FT REPEAT 161 173 2.
 FT REPEAT 174 186 3.
 FT REPEAT 187 199 4.
 FT REPEAT 200 212 5.
 FT REPEAT 213 225 6.
 FT REPEAT 232 243 7.
 FT REPEAT 244 256 8.
 FT DOMAIN 304 394 CYS-RICH.
 FT CARBOHYD 269 269 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 396 396 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 491 AA; 51669 MW; 2B2F5DFBD397D6D CRC64;
 Query Match 6.4%; Score 142.5; DB 1; Length 491;
 Best Local Similarity 26.1%; Pred. No. 0.03; Gaps 15;
 Matches 81; Conservative 46; Mismatches 126; Indels 57; Gaps 15;

QY 110 PAKGIMSYRITDFPSL--TRNLPSQBLPQDPSLHGQFSQAVTPLAHRRHHTDYSKPTDLSW 168
 DB 9 PVSGL--SIGTKAMIGTYM-----EvTVYHRRGSQSYVPLAHSSAFTTDQVPP 58
 QY 169 RDTLSQ-----KEGSDHLEKLFKMBASAOI-----LAYK-EKGHSQSSQSSDQE 214
 DB 59 SVSVSOLQALDGRNKRFLRKPLTQFALQHDPGSLYLAGDLSYTWDFGQDSTGLTISRALT 118
 QY 215 IAHLPEN-----VSALPATAVAS-----HTSATPKATLQPTMASVTPSG 258
 DB 119 VTHTYLSESGPTAQVVLQAIPLTSQGSSVPGTDRHVTB-BARGTAGQVPTEVWG 177
 QY 259 TSQPOLATTPRPTVTSQOPTLTSVFTTRAATQAMATTAVLTTFOAPT-DSKGS 316
 DB 178 TPGQVPTAEGPTVGVWVPTEDVGT-----TPEQVATSKVLSITPVEMPATAKGR 230

GN SILV OR PHE1 17 OR RPE1.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
 OC Bovidae; Bovinae; Bos.
 NCBI TAXID=9913;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Retina;
 RX MEDLINE=93122163; PubMed=1478275;
 RA Kim R.Y., Wilcock G.J.;
 RA "The CDNA RPE1 and monoclonal antibody HMB-50 define gene products
 RY preferentially expressed in retinal pigment epithelium.";
 RL Exp. Eye Res. 55:657-662 (1992).
 CC -1- FUNCTION: Could be a melanogenic enzyme (By similarity).
 CC -1- SUBCELLULAR LOCATION: Type I membrane protein (Potential).
 CC -1- TISSUE SPECIFICITY: Retinal pigment epithelium.
 CC -1- SIMILARITY: BELONGS TO THE PHE1/17/NMB FAMILY.
 CC -1- SIMILARITY: Contains 1 PKD domain.
 CC
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
 CC the European Bioinformatics Institute. There are no restrictions on its
 CC use by non-profit institutions as long as its content is in no way
 CC modified and this statement is not removed. Usage by and for commercial/
 CC entities requires a license agreement (See <http://www.ibs-sib.ch/announce/>
 CC or send an email to license@ibs-sib.ch).
 CC
 DR EMBL: M81193; AAA30419.1; -.
 DR PIR; A49179; AA919.
 DR InterPro; IPR00601; PKD.
 DR SMART; SW0089; PKD; 1.
 DR PROSITE; PS5003; PKD; 1.
 KW Transmembrane; Glycoprotein; Melanin biosynthesis; Repeat.
 NON-TER 1 1 EXTRACELLULAR (POTENTIAL).
 FT DOMAIN <1 423 POTENTIAL.
 FT TRANSMEM 424 444 CYTOPLASMIC (POTENTIAL).
 FT DOMAIN 445 491 PKD.
 FT DOMAIN 450 150 X 13 AA APPROXIMATE TANDEM REPEATS.
 FT DOMAIN 148 256 1.
 FT REPEAT 149 160 1.
 FT REPEAT 161 173 2.
 FT REPEAT 174 186 3.
 FT REPEAT 187 199 4.
 FT REPEAT 200 212 5.
 FT REPEAT 213 225 6.
 FT REPEAT 232 243 7.
 FT REPEAT 244 256 8.
 FT DOMAIN 304 394 CYS-RICH.
 FT CARBOHYD 269 269 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 396 396 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 491 AA; 51669 MW; 2B2F5DFBD397D6D CRC64;

QY	317	LETIPEFRISNLNTLNG--NNTVNPALSMSNVESTMKTASWEGRASPGSSQSGSVP	373
FT	REPEAT	206	215
FT	REPEAT	216	215
FT	REPEAT	225	10
Db	231	TPEVSTTBPSGRTVQGTTPVELVETTAGEVSTPAGSN-TSSFMPPTGAGSLS--PLP	287
QY	374	ENQYGLPFEK	383
Db	288	DOTATIYIIEK	297
RESULT 13			
SEPL_MOUSE			
ID -SEPL_MOUSE			
STANDARD; PRT; 397 AA.			
AC 062170; DT 01-NOV-1997 (Rel. 35, Created)			
DT 01-NOV-1997 (Rel. 35, Last sequence update)			
DT 28-FEB-2003 (Rel. 41, Last annotation update)			
P-selectin glycoprotein ligand 1 precursor (PSGL-1) (selectin P			
DE ligand)			
GN SELP OR SELP1 OR SELP1.			
OS Mus musculus (Mouse).			
OC Bokaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC Mammalia; Eutheria; Rodentia; Sciurognathia; Muridae; Murinae; Mus.			
NCBI_TAXID=10090;			
{1} RP SEQUENCE FROM N.A.			
RT STRAN=BALB/c;			
RX MEDLINE=96220265; PubMed=8639776;			
RA Yang J., Galipeau J., Kozak C., Furie B.,			
RT "Mouse P-selectin glycoprotein ligand-1: molecular cloning, P-			
RT chromosomal localization, and expression of a functional P-selectin			
RT receptor."			
RT Blood 87:4176-4186 (1996).			
-!- FUNCTION: Binds to P-, E- and L-selectins. The calcium-dependent			
high affinity interaction with P-selectin mediates the tethering			
and rolling of neutrophils and T-lymphocytes on endothelial cells.			
-!- SUBUNIT: Homodimer; disulfide-linked (By similarity).			
-!- SUBCELLULAR LOCATION: Type I membrane protein.			
-!- PTM: Highly O-glycosylated (By similarity).			
-!- PTM: Sulfated in the N-terminal region; sulfation is necessary for			
P-selectin binding (By similarity).			

This SWISS-PROT entry is copyright. It is produced through a collaboration			
between the Swiss Institute of Bioinformatics and the EMBL outstation -			
the European Bioinformatics Institute. There are no restrictions on its			
use by non-profit institutions as long as its content is in no way			
modified and this statement is not removed. Usage by and for commercial			
entities requires a license agreement (See http://www.isb-sib.ch/announce/			
or send an email to license@isb-sib.ch).			

CC EMBL: X91144; CAA62533.1; - .			
DR MGD; MGI:106689; SelP1.			
KW Cell adhesion; Glycoprotein; Transmembrane; Signal; Repeat;			
KW Sulfation.			
FT SIGNAL 1 17			
FT PROPEP 18 41			
FT CHAIN 42 397			
FT DOMAIN 18 307			
FT TRANSMEM 308 328			
FT DOMAIN 329 397			
FT MOD_RES 54 54			
FT MOD_RES 55 56			
FT CARBOHYD 65 66			
FT CARBOHYD 261 261			
FT DOMAIN 126 225			
FT REPEAT 126 135			
FT REPEAT 136 145			
FT REPEAT 146 155			
FT REPEAT 156 165			
FT REPEAT 166 175			
FT REPEAT 176 185			
FT REPEAT 186 195			
FT REPEAT 196 205			
FT REPEAT 205 8			
RESULT 14			
DAN4_YEAST			
ID DAN4_YEAST			
STANDARD; PRT; 1161 AA.			
AC P47179; DT 01-FEB-1996 (Rel. 33, Created)			
DT 01-FEB-1996 (Rel. 33, Last sequence update)			
DT 10-OCT-2003 (Rel. 42, Last annotation update)			
DE Cell wall protein DAN4 precursor.			
DN4 OR YJR151C OR JU223.			
OS Saccharomyces cerevisiae (Baker's yeast).			
OC Bokaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;			
CC Saccharomycetales; Saccharomycetaceae; Saccharomyces.			
CC NCBI_TAXID=4932;			
{1} RP SEQUENCE FROM N.A.			
RA Scarcez T.;			
RL Submitted (SEP-1995) to the EMBL/GenBank/DBJ databases.			
RR [2]			
RP REGULATION.			
RX MEDLINE=2111316B; PubMed=11160904;			
RA Cohen B.D., Sertil O., Abramova N.E., Davies K.J., Lowry C.V.;			
RT "Induction and repression of DNAI and the family of anaerobic			
RT mannoprotein genes in <i>Saccharomyces cerevisiae</i> occurs through a			
RT complex array of regulatory sites.";			
RT Nucleic Acids Res. 29:799-808 (2001).			
-!- FUNCTION: Component of the cell wall (By similarity).			
-!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor			
CC (Potential).			
-!- PTM: Extensively O-glycosylated (Potential).			
-!- SIMILARITY: Belongs to the SRP1 / TPI1 family.			
CC This SWISS-PROT entry is copyright. It is produced through a collaboration			
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -			
CC the European Bioinformatics Institute. There are no restrictions on its			
CC use by non-profit institutions as long as its content is in no way			
CC modified and this statement is not removed. Usage by and for commercial			
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/			
CC or send an email to license@isb-sib.ch).			
DR EMBL; 249651; CAA89684.1; - .			

Copyright (c) 1993 - 2004 Compugen Ltd.

GenCore version 5.1.6

OM protein - protein search, using sw model
Run on: April 28, 2004, 12:55:12 ; Search time 45 Seconds
(without alignments)
3021.963 Million cell updates/sec

Title: US-10-677-471-83

Perfect score: 2211

Sequence: 1 MFFGEGESLTYTLVIVCFLT.....LRRKRYSLRDYLINGIVVDI 431

Scoring table: BLASTM62
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SPREMBL 25;*

1: sp_archea:*

2: sp_bacteria:*

3: sp_fungi:*

4: sp_human:*

5: sp_invertebrate:*

6: sp_mammal:*

7: sp_micr:*

8: sp_organelle:*

9: sp_phage:*

10: sp_plant:*

11: sp_rabbit:*

12: sp_virus:*

13: sp_vertebrate:*

14: sp_unclassified:*

15: sp_virus:*

16: sp_bacteria:*

17: sp_archeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description	RESULT 1	ALIGNMENTS
1	2211	100.0	431	4 QH8J5	Q9H8J5 ID: Q9H8J5; AC: Q9H8J5; DT: 01-MAR-2001 (TREMBLrel. 16, last sequence update) DT: 01-MAR-2001 (TREMBLrel. 16, last annotation update) DT: 01-OCT-2002 (TREMBLrel. 22, last annotation update) DE: Hypothetical protein FLJ33560. OS: Homo sapiens (Human). O: Buxaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. [1] NCBI_TaxID=9606; ORN	PRELIMINARY; PRT; 431 AA.
2	2210	100.0	431	4 QN8C1		
3	2039	92.2	431	6 Q5KG7		
4	2022	91.5	397	4 QBNW60		
5	1179.5	53.3	414	11 Q80V71		
6	1164.5	52.7	414	11 Q9CR33		
7	503	22.7	194	11 Q8K010		
8	197.5	8.9	392	11 Q8VCP2		
9	197	8.9	449	4 QH2K4		
10	196.5	8.9	392	11 Q9DBN1		
11	188	8.5	449	4 Q96F05		
12	180.5	8.2	1349	4 Q9WWQ4		
13	168	7.6	519	5 Q7YTR7		
14	160.5	7.3	477	4 Q4887		
15	157.5	7.1	2448	4 Q9WWQ5		
16	156.5	7.1	328	4 Q9WWQ6		
17	155.5	7.0	769	5 Q17921		
18	155.5	7.0	770	5 Q20908		
19	155.5	7.0	534	3 Q94317		
20	152	6.9	744	3 Q8TFG9		
21	150.5	6.8	382	5 Q9XZB8		
22	147.5	6.7	790	5 Q20599		
23	147.5	6.7	842	5 Q95QF5		
24	146	6.6	316	12 Q8V0M4		
25	146	6.6	457	5 Q86AK1		
25	145.5	6.6	629	5 Q24017		
27	145.5	6.6	716	4 Q9NVE4		
28	145	6.6	1079	5 Q9N4S7		
29	144.5	6.5	377	4 Q8TAX7		
30	144.5	6.5	505	4 Q14395		
31	144.5	6.5	683	5 Q8MRH5		
32	144.5	6.5	787	5 Q9VEY6		
33	144	6.5	22152	4 Q8WXI7		
34	143.5	6.5	1414	11 Q80Z22		
35	143.5	6.5	2850	11 Q80T03		
36	142.5	6.4	826	12 Q8V0L5		
37	142.5	6.4	866	12 Q39781		
38	142.5	6.4	867	12 Q39782		
39	142.5	6.4	1444	5 Q9VTN2		
40	142.5	6.4	1514	5 Q8SY55		
41	142	6.4	483	5 Q9W4M2		
42	142	6.4	873	5 Q9W46B		
43	141.5	6.4	1391	13 Q7ZW07		
44	141	6.4	374	12 Q8V0L6		
45	141	6.4	626	11 Q9CZB2		

QY	121	TDPSSLTRNLSQLPQEDSLHQFSQAVTPLAHHHTDYSKPTDISWRTLSQKGSSD	180	Db	301	AVLTTFQAPTDQSKSLETIPPTESNLNTGNYNPTALMSNVESTMNKTAWSGR	360
Db	121	TDPSSLTRNLSQLPQEDSLHQFSQAVTPLAHHHTDYSKPTDISWRTLSQKGSSD	180	Qy	361	EASPOSSSQGSVPENQYGPFPKEKHLISLLFGVLFLVIGVLVLRGRISLSRKRRSRL	420
Qy	181	HLEKLKFMDEASAQQLAYKEKGHHSQSSQFSSDQETAHLLPENPSALPATAVASPHHTSA	240	Db	361	EASPOSSSQGSVPENQYGPFPKEKHLISLLFGVLFLVIGVLVLRGRISLSRKRRSRL	420
Db	181	HLEKLKFMDEASAQQLAYKEKGHHSQSSQFSSDQETAHLLPENPSALPATAVASPHHTSA	240	Qy	421	DYLINGIYVDI 431	421
Qy	241	TPKPATLPTMASVPGTSQPLATAPPTTYSQPTPLISTVTRAATQAMATT	300	Db	421	DYLINGIYVDI 431	421
Db	241	TPKPATLPTMASVPGTSQPLATAPPTTYSQPTPLISTVTRAATQAMATT	300	RESULT 2			
Qy	301	AVLTTFQAPTDQSKSLETIPPTESNLNTGNYNPTALMSNVESTMNKTAWSGR	360	Q95KG7			
Db	301	AVLTTFQAPTDQSKSLETIPPTESNLNTGNYNPTALMSNVESTMNKTAWSGR	360	ID	Q95KG7	PRELIMINARY;	PRT;
Qy	361	EASPOSSSQGSVPENQYGPFPKEKHLISLLFGVLFLVIGVLVLRGRISLSRKRRSRL	420	AC	Q95KG7;		
Db	361	EASPOSSSQGSVPENQYGPFPKEKHLISLLFGVLFLVIGVLVLRGRISLSRKRRSRL	420	DT	01-DEC-2001 (TREMBLrel. 19, Created)		
Qy	361	EASPOSSSQGSVPENQYGPFPKEKHLISLLFGVLFLVIGVLVLRGRISLSRKRRSRL	420	DT	01-DEC-2001 (TREMBLrel. 19, Last sequence update)		
Db	361	EASPOSSSQGSVPENQYGPFPKEKHLISLLFGVLFLVIGVLVLRGRISLSRKRRSRL	420	DT	01-OCT-2003 (TREMBLrel. 25, Last annotation update)		
Qy	421	DYLINGIYVDI 431	421	DE	Hypothetical protein.		
Db	421	DYLINGIYVDI 431	421	OS	Macaca fascicula (Crab eating macaque) (Cynomolgus monkey).		
OC			OC	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;		
OC			OC	OC	Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;		
OC			OC	OC	Cercopithecinae; Macaca.		
OC			OC	OC	NCBI_TaxID=951;		
RN			RN		[1]		
RR			RR		SEQUENCE FROM N.A.		
RA			RA		TISSUE=Temporal cortex;		
RA			RA		Osada N., Hida M., Kusida J., Tanuma R., Iseki K., Hirai M., Terao K.,		
RA			RA		Suzuki Y., Sugano S., Hashimoto K.;		
RA			RA		Isolation of full-length cDNA clones from macaque brain cDNA		
RA			RA		libraries";		
RA			RA		Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.		
RA			RA		EMBL; AB60888; BAB46892.1; -.		
RA			RA		HYPothetical protein.		
RA			RA		SEQUENCE 431 AA; 47104 MW; BF1096887P76C69 CRC64;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		
RA			RA		Best Local Similarity 92.2%; Pred No. 8.1e-146; Length 431;		
RA			RA		Matches 398; Conservative 9; Mismatches 24; Indels 0; Gaps 0;		
RA			RA		Query Match, 92.2%; Score 2039; DB 6; Length 431;		

RESULT 4	Q9NW60	PRELIMINARY;	PRT;	397 AA.	OC	Bukaryota; Metazoa; Chordata; Craniata; vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
ID	09NW60				OC	
AC	Q9NW60;				NCBI_TaxID=10090;	
DT	01-OCT-2000 (T-EMBL; 15, Created)				RN	[1]
DT	01-OCT-2002 (T-EMBL; 22, Last sequence update)				RP	SEQUENCE FROM N.A.
DT	01-OCT-2002 (T-EMBL; 22, Last annotation update)				RC	STRAIN=FVB/N; TISSUE=Breast tumor;
DT	01-OCT-2002 (T-EMBL; 22, Last annotation update)				RX	MEDLINE=22388257; PubMed=12477932;
DE	Hypothetical protein FLJ10298.				RA	Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
OS	Homo sapiens (Human).				RA	Klauser R.D., Collins F.S., Wagner L., Shearer C.M., Schuler G.D.,
OC					RA	Altshul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
OC					RA	Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
OX					RA	Darchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RN					RA	Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RP					RA	Brownstein M.J., Udin T.B., Toshiyuki S., Carninci P., Prange C.,
RA					RA	Raha S.S., Loguillo N.A., Peters G.J., Abramson R.C., Mullahy S.J.,
RA					RA	Bosak S.A., McBwan P.J., McKernan K.J., Malek J.A., Gunnarsson P.H.,
RA					RA	Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA					RA	Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA					RA	Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA					RA	Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA					RA	Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RT	"NEDO human cDNA sequencing project.";				RA	Krzewinski M.I., Skalska U., Smialus D.B., Schnurch A., Schein J.E.,
RL	Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases.				RA	Jones S.J., Maza S.J.,
DR	EMBL: AK001160; BA091526.1; -				RA	"Generation and initial analysis of more than 15,000 full-length human
KW	Hypothetical protein.				RA	and mouse cDNA sequences.";
SQ	SEQUENCE 397 AA; 43062 MW; E2FFF2E61122C62 CRC64;				RA	and mouse cDNA sequences.";
Query Match	91.5%; Score 2022; DB 4; Length 397;				RA	Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
Best Local Similarity	92.1%; Pred. No. 1.4e-144;				RA	[2]
Matches	397; Conservative 0; Mismatches 0; Indels 34; Gaps 1;				RC	SEQUENCE FROM N.A.
QY	1 MPPGGGGSLTTVTLV1CFLTRLRLSASONCLKSLEDVVIDQISSKGIRGNEPVYSTQ	60			RA	Strauberg R.; Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.
Db	1 MPPGGGGSLTTVTL-----GIRGNEPVYSTQ	26			RA	Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
QY	61 EDCINSCCSTKNISGDKACNLMIFDRKTARQPNCYLFFCNEAACPLPKAGLMSYRII	120			RA	RT
Db	27 EDCINSCCSTKNISGDKACNLMIFDRKTARQPNCYLFFCNEAACPLPKAGLMSYRII	86			RA	RT
QY	121 TDPFSITRNULSQEQLPDSLHGPQSOAVTPLAHHTDKSPTDLSWRITLSQFGSSD	180			RA	RT
Db	87 TDPFSITRNULSQEQLPDSLHGPQSOAVTPLAHHTDKSPTDLSWRITLSQFGSSD	146			RA	RT
QY	181 HLEKLFKMDDEASAQQLAKYKEKGHQSOSQFSSDQEIAHLLPENSAALPATAVASHTSA	240			RA	RT
Db	147 HLEKLFKMDDEASAQQLAKYKEKGHQSOSQFSSDQEIAHLLPENSAALPATAVASHTSA	206			RA	RT
QY	241 TPKPATLPLPTNAVTPSGTSQPOLATTAPPVTTVSQOPTTILSTVPTRAATQAMATT	300			RA	RT
Db	207 TPKPATLPLPTNAVTPSGTSQPOLATTAPPVTTVSQOPTTILSTVPTRAATQAMATT	266			RA	RT
QY	301 AVLTTFOAFTPSDKSLEETPTESNLNTINGNYNPTALSMSNVESTNKTASWGR	360			RA	RT
Db	267 AVLTTFOAFTPSDKSLEETPTESNLNTINGNYNPTALSMSNVESTNKTASWGR	326			RA	RT
QY	361 EASPGSSSSQGSVPENOYGLPPEKWLIGLISLFGVLFLVIGVLIGRILSLLRKRYSRL	420			RA	RT
Db	327 EASPGSSSSQGSVPENOYGLPPEKWLIGLISLFGVLFLVIGVLIGRILSLLRKRYSRL	386			RA	RT
QY	421 DYLINGIVYDI 431				RA	RT
Db	387 DYLINGIVYDI 397				RA	RT
RESULT 5	Q80V71	PRELIMINARY;	PRT;	414 AA.	RA	RT
ID	080V71;				RA	RT
AC	080V71; 01-JUN-2003 (T-EMBL; 24, Created)				RA	RT
DT	01-JUN-2003 (T-EMBL; 24, Last sequence update)				RA	RT
DT	01-JUN-2003 (T-EMBL; 24, Last annotation update)				RA	RT
DE	9130403P1Rik protein.				RA	RT
OS	Mus musculus (Mouse).				RA	RT
RESULT 6					RA	RT

Q9CR33	PRELIMINARY;	PRT;	414 AA.
AC			
ID			
DT	01-JUN-2001 (TREMBLrel. 17, Last sequence update)		
DT	01-MAR-2003 (TREMBLrel. 23, Last annotation update)		
DE	9130403P13R1K protein (weakly similar to NT2RM100115 protein).		
OS	Mus musculus (Mouse).		
OC	Bukarvota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
OX	NCBI_TaxID=10090;		
RN	[1] SEQUENCE FROM N.A.		
RP	STRAIN=CS7BL/6J; TISSUE=Cecum;		
RX	MEDLINE=21085660; PubMed=11217851;		
RA	Kawai J., Shinagawa A., Shibata K., Yoshino M., Itch M., Ishii Y., Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S., Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamakawa I., Saito T., Okazaki Y., Godohri T., Bono R., Kadota K., Matsuda H., Aeburnier M., Batyalov S., Casavant T., Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H., Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J., Schriml L.M., Stabili F., Suzuki R., Tomita M., Wagner L., Washio T., Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G., Blaize J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F., Brownstein M.J., Bult C., Fletcher C., Fujita M., Garibaldi M., Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H., Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P., Nordone P., Ring B., Ringwald M., Rodriguez J., Sakamoto N., Rasa Sasaki H., Sato K., Schoenbach C., Seva T., Shibata Y., Storch K.-F., Suzuki H., Toyooka K., Wang K.H., Witz C., Wittaker C., Wilming L., Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S., Hayashizaki Y.; "Functional annotation of a full-length mouse cDNA collection."; RT "Functional annotation of a full-length mouse cDNA collection."; Nature 409:685-690(2001).		
RP	[2] SEQUENCE FROM N.A.		
RC	STRAIN=CS7BL/6J; TISSUE=Colon, and Medulla oblongata;		
RX	MEDLINE=22554683; PubMed=12466851;		
RA	The RIKEN Genome Exploration Research Group Phase I & II Team;		
RT	"Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs."; RT "Nature 420:563-573 (2002)."		
RT	Nature 420:563-573 (2002).		
RL	EMBL; AK018660; BAB31329.1; -.		
DR	EMBL; AK018635; BAB31319.1; -.		
DR	EMBL; AK035226; BAC28341.1; -.		
DR	EMBL; AK033557; BAC28357.1; -.		
DR	EMBL; AK049837; BAC32892.1; -.		
DR	MGD; MGI:1914979; 9130403P13R1K.		
SQ	SEQUENCE: 414 AA; 44822 MW; 11C1F299E1FB3C44 CRC64;		
Query Match	22.7%; Score 503; DB 11; Length 194;		
Best Local Similarity	59.5%; Pred. No. 3.1e-30;		
Matches	122; Conservative 13; Mismatches 56; Indels 14; Gaps 4;		
QY	227 PATAVAVASPHTSATPKATLPTNASVPTSPGTSQSPQQLATAPVPTVTSQQPTLISV 286		
Db	4 PTTVAVAVPLRNVSATLKPELL-TSISYATAKLUKE-ATTASPVTVTSKLPAVPGSTS 61		
QY	287 FTTAAATLQAMMATTAVLTTEPAPDSGSLIETPTEISNITLTNGVWNPALMSNV 346		
Db	62 PT-----PVVTHQALINTFOAHTDSKGILELMPFOGGSTL-----SDPRHGKSSTS 109		
QY	347 ESSTMNKTAWSWEGEASPTGSSQSOVNPQYGLPFERKLLISLFGVFLVIGVFLVIGR 406		
Db	110 ESSTMNKTAWSWERRVSVGSASLNGKPGSQQHGSFERKLLISLFGVFLVIGVFLVIGR 169		
QY	407 ISESELRRKRYSLDYLINGIVVDI 431		
Db	170 MLYEALRRKRYSLDYLINGIVVDI 194		
	RESULT 8		
Q8VCP2			
ID	Q8VCP2	PRELIMINARY;	PRT; 392 AA.
AC	Q8VCP2;		
DT	01-MAR-2002 (TREMBLrel. 20, Created)		
DT	01-MAR-2002 (TREMBLrel. 20, Last sequence update)		
DT	01-OCT-2002 (TREMBLrel. 22, Last annotation update)		
DE	RIKEN cDNA 1810055G02 gene.		
GN	1810055G02RIK.		
OS	Mus musculus (Mouse).		
OC	Bukarvota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.		
OX	NCBI_TaxID=10090;		

RN	[1]							
RP	SEQUENCE FROM N.A.							
RC	TISSUE=Liver;							
RA	Strausberg R.;							
RL	Submitted (DEC-2001) to the EMBL/GenBank/DDBJ databases.							
DR	EMBL: BC019471; AAH9471.1; -;							
DR	MGI:1919306; 1810055G02Rik.							
DR	SEQUENCE 392 AA; 41081 MW; 1D79796C791211FA CRC64;							
Query Match	Best Local Similarity 8.9%; Score 197; DB 11; Length 392; Matches 89; Conservative 26.5%; Pred. No. 9.3e-07; Mismatches 115; Indels 95; Gaps 14;							
Db	210 --SSDORIAHLLPENYALPIT--VAVASPHIT-----SATPKPATLPTN 251							
Db	131 GLPLSLSTPHAEVPTNASVSPRTAMAATVAPHTATLAAGTWTNTSDPHTRTSPAKPTD 190							
Db	252 ASVTPSCTSQQPLATTPVTT-----VTSQPPITLISSTVPTTAAT 293							
Db	191 TSSKNPPTSGAQIQTQVLTQDQPHSTAGRSALSPSNALPTTQVQKTB-SAST 249							
Db	294 IQAMATTAVLTTFOAPDTSKGSLETTPTBRISNLNTGNYNPTALMSMNSVESSTMK 353							
Db	250 VPARATSLSPDVVISPTQPS--PTLP-----TOGTG--PGTLLTTEQVGIKTSG 298							
Qy	354 TSWEGEAEPESSQSSV-----PENQYGLPFE-----KWLJGSLFGV 394							
Db	299 TAS-----AGPTSRSGDIKVPPTDSCOPSTOCQYLVTLALTPLSLVNVKMLLUVVUVGV 353							
Qy	395 LFVIGVLVLGRLISESRKRSRDLVINGIYD 430							
Db	354 TUFIAVJMVMAQAYESTKPKQYQDYLINGMAD 389							
RESULT 9								
Q9H2K4	PRELIMINARY; PRT; 449 AA.							
ID	Q9H2K4: 01-MAR-2001 (TREMBLrel. 16, Created)							
DT	01-MAR-2001 (TREMBLrel. 16, Last sequence update)							
DT	01-OCT-2003 (TREMBLrel. 25, Last annotation update)							
DE	DM4E3-							
GN	CILOR524.							
OS	Homo sapiens (Human)							
OC	Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Cetartiodactyla; Hominoidea; Homo.							
OC	NCBI_TaxID=9606;							
RN	[1]							
RP	SEQUENCE FROM N.A.							
RE	MEDLINE=2129540; PubMed=11401438;							
RA	Twells R.C.J., Metzker M.L., Brown S.D., Cox R., Garey C., Hammond H., Hey P.J., Levy E., Nakagawa Y., Phillips M.S., Todd J.A., Hess J.F., "The Sequence and Gene Characterization of a 400-kb Candidate Region for IDDM4 on Chromosome 11q13."; Genomics 72;231-242(2001);							
RA	EMBL: AF236471; AAC36936.1; -;							
DR	InterPro: IPR01395; AldoKetoReductase 3.1.							
DR	PROSITE: PS00063; AldoKeto REDUCTASE 3.1.							
SO	SEQUENCE; PS00063; AldoKeto REDUCTASE 3.1.							
Query Match	Best Local Similarity 8.9%; Score 197; DB 4; Length 449; Matches 117; Conservative 22.2%; Pred. No. 1.2e-06; Mismatches 166; Indels 195; Gaps 18;							
Qy	13 LVTCICFLTRLSAISONCLRKSLIEDVVIDQISSLKGIRGNPEVPTSTOEDCINSCCSTK 72							
Db	5 LVLWIFSLSLSLSHASNDPRNFVNPKNWKGVLVRMASVETVNDKTSEDVTAAMAS-- 61							
Qy	73 ISGDKACNLMIFDTRKTARQPNQYLFFCPNPEACPLPAKGIMSYRITDPSLTRLNLP 132							

Query Match 7.1%; Score 157.5; DB 4; Length 2448;
 Best Local Similarity 23.1%; Pred. No. 0.011; Mismatches 142; Index 109; Gaps 16;
 Matches 87; Conservative 38; Mismatches 142; Index 109; Gaps 16;

QY 63 CIN-----SCCSTKNTSGDKACCNLMFDTRTRQNCYLFPCPNEACPLKPAKGLMSY 117
 Db 2034 CYNVERIQCCTVNV-----CRIITRPPKTVATRPPH----PIGAQQT 2076
 QY 118 RIITDFPSLNLNP---SQUEOEDSLLHGSQSOAVTPLAHHTDYSKPTDISW---- 168
 Db 2077 TFTTHMPSASBQOPTTSRGCPATATVTOGHHTPPVTRNCIPRCITWTWTFDVFSPGPH 2136
 QY 169 ---RDTLSQKIGSSDHLKFLKMDDEAQSLIAYKEKGHSQSS-----QFSSDQ--- 213
 Db 2137 GGDKEYNNIRSG---EKICRRPEEITRLOC-C-RAKSHPEVSIIEHUGQVVCQSRBEGLVC 2192
 QY 214 -----EIAHLIPENVALPATAVAVASPHTSATPKPATLPTNAS---- 253
 Db 2193 RNQDQQGPFKQCLNLLEVRLCETPKGPV---SIPVTPARSPSGRAISPTQSTSSWQK 2249
 QY 254 -----VTPSTSOPOLATT-----AP-----PVTVTSOPPTMLISTVTPRAA 291
 Db 2250 SRTTIVLVTSTSTPOTSTVTAHTWTTSANTARTSAPTSITSTISPTISGKTPS 2309
 Qy 292 ATLQAMATAVLTTIQAPDPSKGSLETIPTEBISNLTVNGNVNVTALMSMSNVESTM 351
 Db 2310 PVPTTSTTSAAATTSTISAPTSTTS---VPGTTPSPV-LTTSTSAFT-----TR 2355
 QY 352 NKTASWEGREASPGS 367
 Db 2356 TTSASPAGTISGGPNT 2371

Search completed: April 28, 2004, 12:59:19
 Job time : 49 SECs